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Historical Review of the Meziadin River Fishway Biological Program From 1964 to 1986

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Department of Fisheries and Oceans
Prince Rupert, British Columbia
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TABLE OF CONTENTS.

Abstract/Resume	iii
Introduction	1
Methods	1
Results	4
References	4
Appendix 1: Meziadin fishway daily counts	5
Appendix 2: Historical escapement to tributaries of the Nass River	89
Appendix 3: Annual age composition of Nass system sockeye streams	93
Appendix 4: Age composition by sex, by week for Meziadin sockeye from 1975 to 1986	95
Appendix 5: Mean hypural length (mm) by sex, by age class, by week for Meziadin sockeye from 1975 to 1986	107
Appendix 6: Mean hypural length (mm) by sex, by age class, by year for Bowser, Damdochax and Fred-Wright sockeye from 1964 to 1986	110

ABSTRACT

Haugan, D., A.L. Jantz and B. Spilsted. 1989. Historical Review of the Meziadin River Fishway Biological Program from 1964 to 1986. Can. Data Rep. Fish. Aquat. Sci. 765: iii + 112p.

Daily fishway counts for all salmon species (*Oncorhynchus* sp.) and steelhead trout (*Salmo gairdneri*), and age, sex and length information for sockeye salmon are presented in this report from 1964 to 1986. Total escapements for all salmon species and age composition for sockeye in the Damdochax, Fred-Wright, Meziadin and Bowser systems is recorded.

RESUME

Haugan, D., A.L. Jantz et B. Spilsted. 1989. Historical Review of the Meziadin River Fishway Biological Program from 1964 to 1986. Rapp. Stat. Can. Sci. Halieut Aquat. 765: iii + 112p.

Ce rapport, portant sur la période de 1964 à 1986, traite des dénombrements quotidiens de toutes les espèces de saumon (*Oncorhynchus* sp.) et de la truite arc-en-ciel anadrome (*Salmo gairdneri*) effectués dans les passes migratoires; il contient également des données relatives à l'âge, au sexe et à la longueur du saumon rouge. On y donne le total des échappées de toutes les espèces de saumon ainsi que l'âge des saumons rouges dans les réseaux Damdochax, Fred-Wright, Meziadin et Bowser.

INTRODUCTION

The Meziadin River flows into the Nass River system approximately 180 km from where the Nass River flows into Portland Inlet in Statistical Area 3 (figure 1). The known major sockeye (Oncorhynchus nerka) producers in the Nass River system include Meziadin, Bowser, Damdochax and Fred-Wright lakes (figure 1). The Meziadin fishway was constructed to bypass a series of waterfalls known as Victoria Falls. The purpose of the fishway was to provide access to existing spawning grounds above the falls (Southgate, et al. 1988) and to provide a method of determining the spawning escapement of sockeye salmon in the Meziadin system. Previous studies in the late 1950's indicated high fish mortality was occurring due to the inability of the salmon to move passed Victoria Falls (Todd and Dickson, 1970).

Prior to the construction of Meziadin fishway in 1966, it was thought that the Meziadin system produced less than 40% of the total Nass sockeye return. Since the completion of the fishway it has been discovered that 70 to 80% of the Nass River sockeye run returns to the Meziadin system.

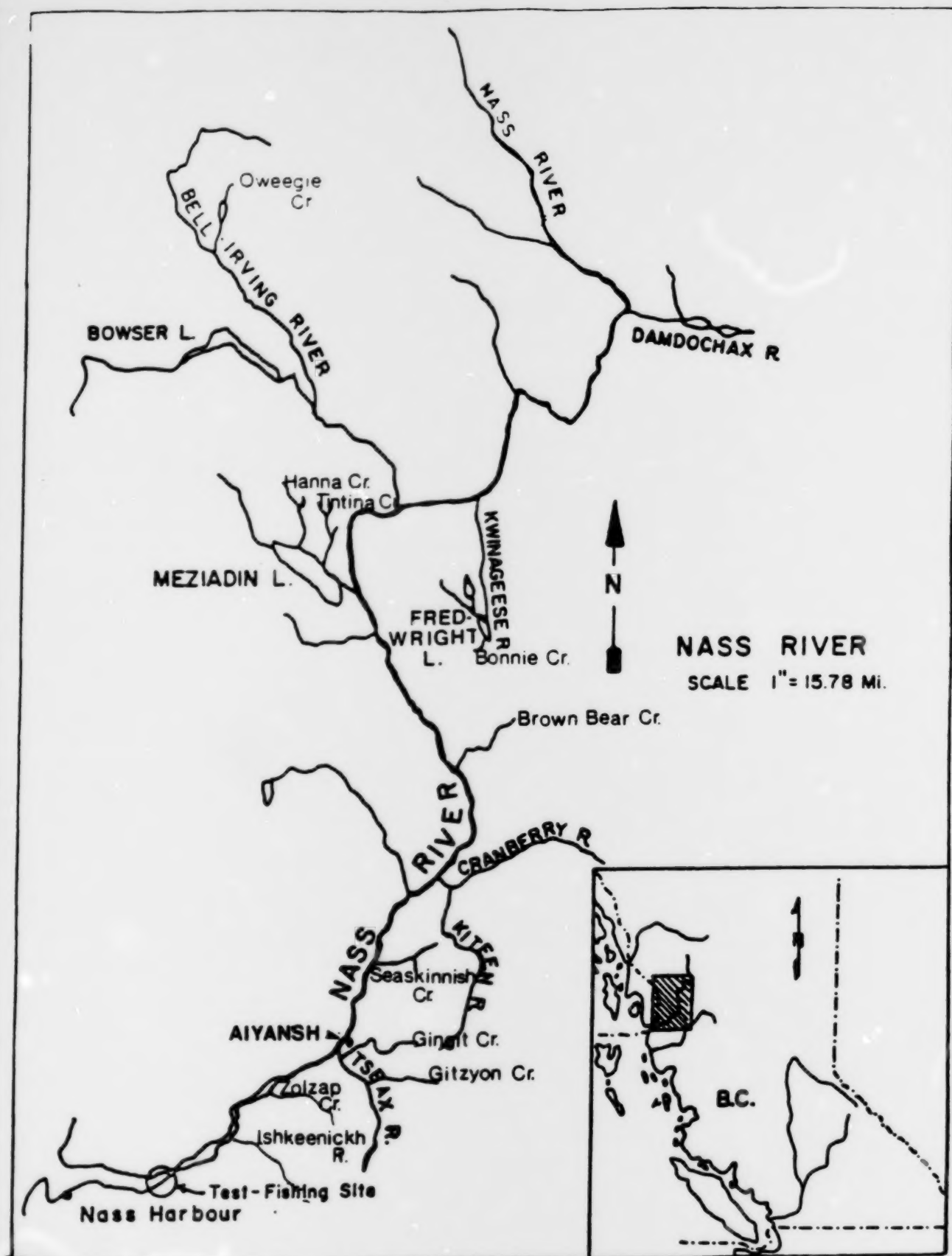
METHODS

Information contained in this report relates to escapement data for all Nass Systems. Included is a brief description of the methods used to generate annual escapements for all systems.

Meziadin

The Meziadin escapement represents as much as 70% of the Nass sockeye escapement. Prior to 1966, estimates were generated through tagging studies for the years 1957 to 1959 and 1964 to 1965. Since the completion of the fishway in 1966, complete escapement counts have been enumerated through the fishway. Spawning occurs both in the lake and in the streams flowing into the lake (Hanna, Tintina and Strohm), with the majority of the spawning taking place in the lake. Due to the glacial nature of the lake, aerial survey of lake spawners is impractical.

The Meziadin fishway was designed either to operate unmanned or to hold enumeration facilities which are operated by support personnel. Since 1966, the fishway has been manned during each season. It is attempted annually to have the trap installed and operational by the first week in July, with the exact starting date being determined by water levels which must be low enough to allow personnel to enter the water and install trap panels.



The personnel operating the fishway are responsible for the daily counts of returning salmon (Appendix 1), biological sampling, water level measurements and camp maintenance. The enumeration continues until the sockeye counts fall to less than 300 fish per day, usually in early September. Sockeye salmon are also sampled on a daily basis for biological information. The number of fish sampled each day is determined by calculating one percent of the total catch from the previous day up to a total of one hundred fish. The fish are dipped from the holding trap, sampled and returned alive to the river. The following samples are taken from each fish:

- 1) sex
- 2) scale sample (2)
- 3) pectoral fin clip
- 4) nose/fork length
- 5) post-orbital to hypural length

Bowser Lake

The Bowser Lake system is the most glacial system in the Nass River. Although direct evidence is not available for the Bowser population, an analysis of the racial characteristics of the Bowser and Meziadin populations in conjunction with the test fishing index of escapement, and known escapements to Damdochax and Fred-Wright Lakes, has been used to derive Bowser escapements beginning in 1964 (Todd and Dickson, 1970). Since 1964, Bowser stocks have been sampled for size, sex and age characteristics which are then compared to similar samples from the other major Nass producers. For a more detailed description of the method and calculations see Todd and Dickson, 1970. Samples are collected using multipanelled gillnets which are comprised of three equal panels of three different mesh sizes (4", 4 1/2" and 5"). All spawning is believed to occur in the lake, although some sockeye have been observed in the upper Bowser River.

Damdochax

The Damdochax system is the upper most sockeye stock known in the Nass River. Escapement estimates are generated through aerial observations from both fixed wing and helicopter surveys. Sockeye are captured for sampling purposes using the multipanelled nets previously described. Spawning occurs in Damdochax Lake, Wiminask River and lake and the creek which flows into Wiminask Lake. The majority of spawning occurs in Wiminask River.

Fred-Wright Lake

The Fred-Wright system is the third largest sockeye producer in the Nass River. Escapement estimates are generated from both aerial and foot surveys. Spawning occurs in the upper Kwinageese River and Bonnie Creek which both flow into Fred-Wright Lake and the lower Kwinageese River. Sockeye are collected for sampling purposes in both Bonnie Creek and the Kwinageese River.

RESULTS

Appendix 2 presents historical escapements of all salmon species to Bowser, Damdochax, Fred-Wright and Meziadin systems. From 1964 to 1988 Meziadin Lake has had an average annual sockeye escapement of 145,818 with a range from 41,278 in 1967 to 290,000 in 1985. Bowser Lake has averaged 26,319 during the same time period with a range from 6,100 in 1968 to 120,645 in 1977. The average for Damdochax Lake is 6,152 with a low of 500 in 1981 and a high of 15,000 in 1969, 1971 and 1985. Fred-Wright Lake has an average annual escapement of 8,565 with a range from 800 in 1980 to 25,000 in 1986.

The age composition of sockeye salmon in these systems is shown in Appendix 3. These age compositions are derived from the biological sampling done on these systems. The age compositions for these systems varies greatly from one system to another. Fred-Wright and Damdochax sockeye return primarily as age 4-2 and 5-2 fish with no consistent trends as far as one age class being the dominant one. Meziadin sockeye are predominately age 5-3 fish (60%) while Bowser Lake is quite a mix of age classes, with 4-2, 5-2 and 5-3 fish ranging between 25% and 33% each and occasionally one age class making up to 50% of the stock.

Meziadin sockeye age composition is broken down to age/week using the daily sampling done at the fishway. These age compositions covering the period from 1975 to 1986 are included in Appendix 4. Appendix 5 shows the weekly mean hypural length of sockeye for each age class by sex sampled at the Meziadin fishway from 1975 to 1986 using the daily sampling results. Appendix 6 presents annual mean hypural length for each age class by sex for Bowser, Damdochax and Fred-Wright sockeye stocks from 1964 to 1986.

REFERENCES

- Southgate, D.R., M.J. Jakubowski, V.L. Craig and A.L. Jantz., 1988. A Review of the Meziadin River Fishway Biological Program for 1987 and 1988. Can. Data Rep. of Fish. and Aquat. Sci. No. 739: iii+79p.
- Todd, I.S., and F.V. Dickson., 1970. Nass River Sockeye Salmon. A Review of the Commercial Fishery and a Summary of the 1963 to 1969 Biological Programs. Technical Report 1970 - 10.

Appendix 1. Meziadin fishway daily counts.

DAILY LARGE SOCKEYE COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 30								
JULY 1					4	4		
2					3	7		
3					1	8		
4					17	25	85	85
5	9	9			13	38	521	606
6	32	41			3	41	1430	2036
7	72	113			5	46	5335	7371
8	72	185			1	47	19219	26590
9	82	267	2	2	8	55	10339	36929
10	22	289	14	23	3	58	4820	41749
11	45	334	44	67	1	59	978	42727
12	75	409	31	98	8	67	99	42826
13	162	571	61	159	22	89	214	43040
14	98	669	138	297	22	111	860	43900
15	241	910	166	463	14	125	1662	45562
16	200	1110	139	602	6	131	2392	47954
17	174	1284	432	1034	229	360	2267	50221
18	261	1545	225	1259	330	690	2093	52314
19	205	1750	647	1906	1033	1723	2568	54882
20	174	1924	463	2369	4571	6294	2483	57365
21	548	2472	295	2664	5026	11320	1508	58873
22	1027	3499	139	2803	4593	15913	1141	60014
23	1388	4887	100	2903	1156	17069	1948	61962
24	1208	6095	83	2986	1669	18738	1687	63649
25	943	7038	136	3122	2367	21105	1096	64745
26	852	7890	137	3259	2579	23684	656	65401
27	1040	8930	660	3919	3188	26872	693	66094
28	946	9876	1201	5120	1658	28530	229	66323
29	1844	11720	308	5428	912	29442	381	66704
30	1849	13569	142	5570	780	30222	576	67280
31	1640	15209	19	5589	735	30957	1180	68460
	2259	17468	187	5776	1250	32207	1215	69675
AUG. 1	2395	19863	427	6203	1188	33395	1088	70763

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	1945	21808	652	6855	914	34309	1157	71920
3	1087	22895	1686	8541	828	35137	1396	73316
4	2546	25441	2102	10643	441	35578	773	74089
5	3392	28833	1824	12467	1916	37494	1664	75753
6	2529	31362	959	13426	1215	38709	2401	78154
7	2356	33718	1079	14505	2482	41191	1131	79285
8	2494	36212	2041	16546	2497	43688	313	79598
9	1897	38109	2919	19465	2403	46091	634	80232
10	804	38913	579	20044	2300	48391	193	80425
11	999	39912	467	20511	3222	51613	143	80568
12	2547	42459	158	20669	3191	54804	360	80928
13	2399	44858	288	20957	2015	56819	1111	82039
14	2441	47299	473	21430	1783	58602	1258	83297
15	1406	48705	865	22295	2728	61330	477	83774
16	1612	50317	1287	23582	1822	63152	87	83861
17	1072	51389	1620	25202	1545	64697	324	84185
18	996	52385	1088	26290	1464	66161	697	84882
19	1834	54219	1508	27798	1086	67247	732	85614
20	1796	56015	734	28532	855	68102	762	86376
21	1748	57763	445	28977	1124	69226	2141	88517
22	1598	59361	473	29450	982	70208	1577	90094
23	1366	60727	934	30384	593	70801	1316	91410
24	1539	62266	1556	31940	329	71130	1841	93251
25	958	63224	849	32789	138	71268	5006	98257
26	523	63747	917	33706	173	71441	7149	105406
27	631	64378	324	34030	263	71704	6410	111816
28	205	64583	126	34156		71704	6016	117832
29	210	64793	338	34494		71704	6029	123861
30	91	64884	601	35095		71704	3365	127226
31		64884	608	35703		71704	2142	129368
1		64884	587	36290		71704	1590	130958
2		64884	276	36566		71704	663	131621
3		64884	277	36843		71704	358	131979
4		64884	170	37013		71704	336	132315

SEPT

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5		64884	166	37179	71704	71704	776	133091
6		64884	393	37572	71704	71704	629	133720
7		64884	782	38354	71704	71704	438	134158
8		64884	479	38833	71704	71704	366	134524
9		64884	280	39113	71704	71704	372	134896
10		64884	335	39448	71704	71704	297	135193
11		64884	657	40105	71704	71704	79	135272
12		64884	193	40298	71704	71704	0	135272
13		64884	552	40850	71704	71704	31	135303
14		64884	193	41043	71704	71704	30	135333
15		64884	168	41211	71704	71704		135333
16		64884	87	41298	71704	71704		135333
17		64884	51	41349	71704	71704		135333
TOTALS		64884		41349		71704		135333

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29										
30	0	0							663	663
JULY 1	0	0							4461	5124
2	0	0							6227	11351
3	2	2					4	4	5388	16739
4	3	5					1	5	5733	22472
5	5	10					3	8	4500	26972
6	5	15			2	2	10	18	1372	28344
7	4	19	10	10	15	17	3	21	858	29202
8	9	28	44	54	9	26	27	48	931	30133
9	15	43	39	93	2	28	82	130	784	30917
10	10	53	52	145	2	30	264	394	570	31487
11	9	62	77	222	26	56	722	1116	535	32022
12	367	429	136	358	26	82	3714	4830	1925	33947
13	2877	3306	242	600	58	140	20902	25732	3433	37380
14	11044	14350	443	1043	117	257	29338	55070	2799	40179
15	10998	25348	1685	2728	66	323	15869	70939	1455	41634
16	3385	28733	1893	4621	201	524	3910	74849	1232	42866
17	3045	31778	4418	9039	346	870	6205	81054	3049	45915
18	2637	34415	12226	1265	815	1685	7249	88303	2952	48867
19	1603	36018	14566	35831	917	2602	3838	92141	5259	54126
20	266	36284	3286	39117	1131	3733	2243	94384	4000	58126
21	374	36658	3307	42424	1007	4740	1126	95510	2688	60814
22	1047	37705	3072	45496	1666	6406	931	96441	2600	63414
23	1515	39220	2390	47886	4541	10947	437	96878	1570	64984
24	1407	40627	2248	50134	5462	16409	2329	99207	865	65849
25	1235	41862	2061	52195	4204	20613	2696	101903	507	66356
26	1081	42943	2237	54432	3025	23638	4735	106638	812	67168
27	482	43425	2763	57195	5271	28909	7992	114630	962	68130
28	237	43662	2335	59530	4809	33718	9015	123645	1210	69340
29	333	43995	1753	61283	6512	40230	6575	130220	1471	70811
30	414	44409	1141	62424	8556	48786	6857	137077	1007	71818
31	560	44969	1028	63452	5691	54477	4437	141514	1328	73146
AUG. 1	502	45471	546	63998	1916	56393	3196	144710	1709	74855
			1841	65839	3099	59492	4245	148955		

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	477	45948	1470	67309	5167	64659	5183	154138	1382	76237
3	179	46127	376	67685	3628	68287	7505	161643	707	76944
4	190	46317	850	68535	2275	70562	7653	169296	303	77247
5	119	46436	1578	70113	1405	71967	4025	173321	827	78074
6	343	46779	1802	71915	682	72649	2367	175688	709	78783
7	186	46965	2473	74388	975	73624	4078	179766	766	79549
8	206	47171	2129	76517	603	74227	2919	182685	759	80308
9	180	47351	2934	79451	1397	75624	2863	185548	1243	81551
10	200	47551	3086	82537	1543	77167	4294	189842	957	82508
11	312	47863	3216	85753	1188	78355	2417	192259	1736	84244
12	364	48227	2581	88334	771	79126	1599	193858	1166	85410
13	128	48355	2493	90827	1379	80505	1556	195414	1444	86854
14	155	48510	3630	94457	2662	83167	1720	197134	2814	89668
15	461	48971	3068	97525	1864	85031	1572	198706	3150	92818
16	147	49118	4487	102012	2410	87441	2293	200999	2985	95803
17	144	49262	5620	107632	3090	90531	1859	202858	3460	99263
18	400	49662	5701	113333	3037	93568	1670	204528	3235	102498
19	818	50480	5519	118852	2517	96085	1361	205889	2622	105120
20	872	51352	1082	119934	1495	97580	2371	208260	4975	110095
21	1983	53335	230	120164	2803	100383	2004	210264	6915	117010
22	2457	55792	216	120380	3534	103917	1653	211917	5403	122413
23	2915	58707	924	121304	3552	107469	8244	220161	4203	126616
24	4097	62804	808	122112	3576	111045	2470	222631	7500	134116
25	3593	66397	700	122812	1783	112828	2527	225158	5050	139166
26	3408	69805	2491	125303	1155	113983	1652	226810	5300	144466
27	2783	72588	5737	131040	1154	115137	1001	227811	3006	147472
28	1340	73928	5404	136444	1550	116687	1024	228835	2800	150272
29	1332	75260	5913	142357	1906	118593	1240	230075	3227	153499
30	422	75682	7354	149711	1219	119812	967	231042	2531	156030
31	225	75907	10414	160125	1830	121642	653	231695	2344	158374
1	335	76242	7078	167203	1324	122966	509	232204	3322	161696
2	305	76547	2045	169248	1083	124049	635	232839	1353	163049
3	235	76782	1851	171099	1388	125437	379	233218	474	163523
4	173	76955	1662	172761	1374	126811	439	233657	709	164232

SEPT

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	42	76997	1174	173935	1187	127998	453	234110	529	164761
6	45	77042	1660	175595	691	128689	310	234420	302	165063
7	33	77075	3487	179082	379	129068	135	234555	196	165259
8		77075	3481	182563	267	129335	60	234615		165259
9		77075	2889	185452	190	129525	12	234627		165259
10		77075	1180	186632		129525		234627		165259
11		77075	1311	187943		129525		234627		165259
12		77075	1346	189289		129525		234627		165259
13		77075	1082	190371		129525		234627		165259
14		77075	667	191038		129525		234627		165259
15		77075	636	191674		129525		234627		165259
16		77075		191674		129525		234627		165259
17		77075		191674		129525		234627		165259
18		77075		191674		129525		234627		165259
19		77075		191674		129525		234627		165259
TOTALS		77075		191674		129525		234627		165259

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29					17	17				
30					25	42				
JULY 1	0	0			164	206	8000	8000	1	1
2	0	0			316	522	4355	12355	11	12
3	0	0			720	1242	7867	20222	42	54
4	0	0			7987	9229	8324	28546	29	83
5	0	0			29492	38721	8866	37412	13	96
6	0	0	0	0	33717	72438	3834	41246	71	167
7	0	0	0	0	29743	102181	4209	45455	166	333
8	1	1	0	0	13520	115701	3776	49231	121	454
9	0	1	0	0	3636	119337	1311	50542	273	727
10	0	1	0	0	2368	121705	1773	52315	376	1103
11	0	1	0	0	1128	122833	1095	53410	306	1409
12	0	1	0	0	1964	124797	1118	54528	191	1600
13	0	1	0	0	2037	126834	413	54941	522	2122
14	0	1	0	0	1662	128496	921	55862	976	3098
15	1	2	0	0	1523	130019	1690	57552	5702	8800
16	13	15	0	0	2087	132106	1387	58939	6175	14975
17	30	45	0	0	1210	133316	1985	60924	1485	16460
18	34	79	0	0	1249	134565	2171	63095	4736	21196
19	32	111	0	0	3084	137649	1876	64971	3419	24615
20	43	154	0	0	3297	140946	2415	67386	2840	27455
21	928	1082	1	1	5594	146540	2182	69568	2053	29508
22	3425	4507	1	2	5531	152071	911	70479	1868	31376
23	2613	7120	5	7	4894	156965	1658	72137	3102	34478
24	3190	10310	2	9	4468	161433	707	72844	4134	38612
25	6852	17162	15	24	3507	164940	1380	74224	3827	42439
26	3082	20244	28	52	2533	167473	1299	75523	3214	45653
27	721	20965	75	127	1177	168650	1487	77010	3880	49533
28	639	21604	186	313	928	169578	791	77801	3190	52723
29	930	22534	1006	1319	1194	170772	1088	78889	1931	54654
30	1390	23924	1025	2344	1248	172020	985	79874	2668	57322
31	1415	25339	1159	3503	1077	173097	834	80708	3245	60567
AUG. 1	416	25755	1275	4778	1274	174371	845	81553	2992	63559

DAILY LARGE SOCKEYE COUNTS

DATE	1975			1976			1977			1978			1979		
	DAILY	CUM		DAILY	CUM		DAILY	CUM		DAILY	CUM		DAILY	CUM	
AUG.	2	818	26573	1015	5793		1467	175838		884	82437		2437	65996	
	3	831	27404	934	6727		1496	177334		579	83016		2292	68288	
	4	313	27717	831	7558		1259	178593		579	83595		3282	71570	
	5	502	28219	744	8302		1164	179757		497	84092		2502	74072	
	6	345	28564	982	9284		831	180588		1232	85324		4292	78364	
	7	230	28794	963	10247		843	181431		879	86203		1471	79835	
	8	496	29290	1177	11424		663	182094		440	86643		3623	83458	
	9	438	29728	999	12423		820	182914		439	87082		2599	86057	
	10	421	30149	1024	13447		1251	184165		492	87574		5176	91233	
	11	356	30505	396	13843		1644	185809		528	88102		5483	96716	
	12	335	30840	69	13912		1807	187616		968	89070		5121	101837	
	13	865	31705	90	14002		1914	189530		1530	90600		4755	106592	
	14	1109	32814	565	14567		1274	190804		1316	91916		4325	110917	
	15	1158	33972	1701	16268		1934	192738		1527	93443		8375	119292	
	16	2160	36132	1465	17733		1850	194588		1485	94928		4955	124247	
	17	1780	37912	2210	19943		1850	196438		1230	96158		3077	127324	
	18	1104	39016	2310	22253		1966	198404		1094	97252		6000	133324	
	19	1864	40880	5706	27959		2217	200621		1672	98924		4725	138049	
	20	1182	42062	7694	35653		1890	202511		1119	100043		3225	141274	
	21	1502	43564	7758	43411		1971	204482		982	101025		1700	142974	
	22	746	44310	6325	49736		1963	206445		904	101929		1930	144904	
	23	520	44830	4910	54646		1148	207593		847	102776		3055	147959	
	24	806	45636	9028	63674		1286	208879		1045	103821		2779	150738	
	25	1493	47129	7900	71574		3095	211974		925	104746		2576	153314	
	26	848	47977	6870	78444		4697	216671		1018	105764		2489	155803	
	27	1191	49168	6465	84909		5017	221688		681	106445		2010	157813	
	28	1662	50830	3629	88538		3570	225258		714	107159		1467	159280	
	29	563	51393	2508	91046		2915	228173		652	107811		2350	161630	
	30	455	51848	3014	94060		3201	231374		480	108291		2525	164155	
	31	715	52563	2133	96193		2946	234320		477	108768		3050	167205	
SEPT	1	757	53320	1508	97701		2199	236519		745	109513		3000	170205	
	2	496	53816	1010	98711		1388	237907		467	109980		2812	173017	
	3	269	54085	1082	99793		1152	239059		299	110279		1470	174487	
	4	10	54095	525	100118		1402	240461		347	110626		575	175062	

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5		54095	561	100879	768	241229	134	110760	1400	176462
6		54095	260	101139	455	241684	258	111018	2040	178502
7		54095	260	101399	316	242000		111018	1700	180202
8		54095	277	101676	267	242267		111018	2498	182700
9		54095	182	101858	24	242291		111018	1818	184518
10		54095	132	101990	32	242323		111018	1519	186037
11		54095	61	102051	28	242351		111018	1420	187457
12		54095	31	102082		242351		111018	1653	189110
13		54095	35	102117		242351		111018	1700	190810
14		54095	161	102278		242351		111018	1250	192060
15		54095	56	102334		242351		111018	770	192830
16		54095	48	102382		242351		111018	226	193056
17		54095	3	102385		242351		111018		193056
18		54095	16	102401		242351		111018		193056
19		54095	29	102430		242351		111018		193056
TOTALS		54095		102430		242351		111018		193056

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29	2	2			1	1				
30	15	17	0		0					
JULY 1	56	73	0		0	1				
2	97	170	4	5	4	5				
3	184	354	0	5	0	5				
4	296	650	0	5	0	5				
5	322	972	4	9	4	9	1		2	2
6	152	1124	240	240	7	16	19	1	22	24
7	52	1176	793	1033	13	29	230	20	6	30
8	284	1460	1585	2618	81	110	221	250	20	50
9	816	2276	8001	2618	363	473	889	471	11	61
10	2937	5213	1347	10619	938	1411	2335	1360	29	90
11	7746	12959	8356	11966	4290	5701	8433	3695	62	152
12	9066	22025	3513	20322	13406	19107	10596	12128	554	706
13	6998	29023	841	23835	20283	39390	12146	22724	413	1119
14	3063	32086	407	24676	10677	39390	12146	34870	421	1540
15	2660	34746	452	25083	1705	50067	6465	41335	926	2466
16	758	35504	512	25535	9157	51772	6108	47443	3059	5525
17	928	36432	1008	26047	11367	60929	7043	54486	8601	14126
18	2262	38694	969	27055	16704	72296	6568	61054	3347	17473
19	4463	43157	897	28024	12381	89000	5409	66463	1219	18692
20	2285	45442	622	28921	11191	101381	3587	70050	1742	20434
21	1880	47322	1211	29543	7485	112572	3580	73630	6543	26977
22	2853	50175	2631	30754	3834	120057	4471	78101	8338	35315
23	1088	51263	2882	33385	3294	123891	3552	81653	10481	45796
24	524	51787	3771	36267	2453	127185	2836	84489	8525	54321
25	1511	53298	4656	40038	549	129638	3826	88315	4725	59046
26	659	53957	1299	44694	3815	130187	2586	90901	3092	62138
27	568	54525	1788	45993	990	134002	3292	94193	2872	65010
28	1266	55791	1477	47781	2943	134992	1972	96165	1053	66063
29	1029	56820	2345	49258	1313	137935	1192	97357	440	66503
30	760	57580	2197	51603	867	139248	1956	99313	922	67425
31	559	58139	2215	53800	989	140115	3863	103176	1576	69001
AUG. 1	205	58344	2812	56015	509	141104	3552	106728	3603	72604
				58827		141613	1500	108228	1460	74064

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	85	58429	7192	66019	302	141915	2273	110501	1027	75091
3	115	58544	6763	72782	527	142442	2149	112650	3913	79004
4	161	58705	3584	76366	713	143155	3280	115930	1845	80849
5	416	59121	2816	79182	806	143961	6197	122127	1104	81953
6	2442	61563	842	80024	1715	145676	3266	125393	1543	83496
7	2316	63879	1169	81193	1435	147111	3348	128741	496	83992
8	3419	67298	2380	83573	4270	151381	2743	131484	548	84540
9	1847	69145	3835	87408	2545	153926	2640	134124	448	84988
10	1022	70167	5213	92621	3127	157053	1733	135857	187	85175
11	970	71137	5809	98430	2561	159614	2103	137960	477	85652
12	634	71771	6426	104856	7435	167049	1836	139796	960	86612
13	596	72367	7095	111951	8489	175538	1782	141578	3211	89823
14	564	72931	8893	120844	6285	181823	1654	143232	2141	91964
15	1020	73951	6657	127501	8225	190048	1414	144646	2045	94009
16	949	74900	7907	135408	3013	193061	1829	146475	3918	97927
17	659	75559	7985	143393	6984	200045	1240	147715	3349	101276
18	522	76081	7790	151183	5058	205103	1523	149238	2600	103876
19	1501	77582	6876	158059	3020	208123	833	150071	1004	104880
20	2207	79789	6229	164288	2958	211081	801	150872	1341	106221
21	3188	82977	6616	170904	3683	214764	1620	152492	2738	108959
22	4663	87640	3844	174748	4709	219473	1929	154421	4547	113506
23	4001	91641	2233	176981	4765	224238	1279	155700	5110	118616
24	4305	95946	2928	179909	3179	227417	1489	157189	4203	122819
25	5464	101410	5232	185141	2058	229475	1187	158376	3566	126385
26	4957	106367	1549	186690	1378	230853	1070	159446	2228	128613
27	6940	113307	282	186972	627	231480	818	160264	711	129324
28	6579	119886	429	187401	1189	232669	621	160885	808	130132
29	5176	125062	502	187903	1784	234453	784	161669	986	131118
30	3180	128242	2596	190499	2239	236692	633	162302	1302	132420
31	2768	131010	2258	192757	1280	237972	1395	163697	1352	133772
1	2162	133172	2275	195032	1160	239132	1048	164745	1424	135196
2	1614	134786	1874	196906	1233	240365	697	165442	1069	136265
3	1569	136355	753	197659	281	240646	858	166300	928	137193
4	886	137241	1138	198797	201	240847	430	166730	847	138040

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	503	137744	1293	200090	546	241393	323	167053	439	138479
6	290	138034	1436	201526	676	242069	410	167463	374	138853
7	185	138219	434	201960	561	242630	134	167597	350	139203
8	412	138631	116	202076	94	242724		167597	125	139328
9	413	139044	247	202323	463	243187		167597		139328
10	253	139297	28	202351	332	243519		167597		139328
11		139297	22	202373	566	244085		167597		139328
12		139297	5	202378	401	244486		167597		139328
13		139297	23	202401		244486		167597		139328
14		139297	22	202423		244486		167597		139328
15		139297	64	202487		244486		167597		139328
16		139297		202487		244486		167597		139328
17		139297		202487		244486		167597		139328
18		139297		202487		244486		167597		139328
19		139297		202487		244486		167597		139328
20		139297		202487		244486		167597		139328
21		139297		202487		244486		167597		139328
22		139297		202487		244486		167597		139328
23		139297		202487		244486		167597		139328
24		139297		202487		244486		167597		139328
25		139297		202487		244486		167597		139328
26		139297		202487		244486		167597		139328
27		139297		202487		244486		167597		139328
28		139297		202487		244486		167597		139328
29		139297		202487		244486		167597		139328
30		139297		202487		244486		167597		139328
OCT. 1		139297		202487		244486		167597		139328
2		139297		202487		244486		167597		139328
3		139297		202487		244486		167597		139328
4		139297		202487		244486		167597		139328
TOTALS		139297		202487		244486		167597		139328

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
JUNE 29				
30				
JULY 1				
2				
3				
4	2	2		
5	0	2		
6	4	6		
7	0	6		
8	0	6		
9	1	7	1	1
10	2	9	5	7
11	0	9	3	10
12	4	13	1	11
13	2	15	11	22
14	5	20	12	34
15	4	24	10	44
16	2	26	17	61
17	43	69	9	70
18	49	118	45	115
19	99	217	23	138
20	50	267	81	219
21	267	534	91	310
22	226	760	381	691
23	467	1227	167	858
24	1473	2700	502	1360
25	980	3680	894	2254
26	5734	9414	1075	3329
27	17735	27149	5817	9146
28	19338	46487	9037	18183
29	36976	83463	21299	39482
30	32708	116171	18975	58457
31	13282	129453	1605	60062
AUG. 1	6404	135857	929	60991
			866	61857

Appendix 1. Cont.

DAILY LARGE SOCKEYE COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
AUG. 2	9429	145286	943	62800
3	5194	150480	1012	63812
4	5826	156306	1615	65427
5	5709	162015	985	66412
6	6439	168454	1635	68047
7	4308	172762	2015	70062
8	4145	176907	580	70642
9	3129	180036	971	71613
10	2055	182091	750	72363
11	4372	186463	977	73340
12	3342	189805	282	73622
13	2909	192714	1023	74645
14	4022	196736	1014	75659
15	2114	198850	745	76404
16	1316	200166	1052	77456
17	3902	204068	1083	78539
18	3623	207691	151	78690
19	3903	211594	1904	80594
20	4007	215601	1710	82304
21	2849	218450	2508	84812
22	5142	223592	1378	86190
23	4001	227593	1440	87630
24	5761	233354	1038	88668
25	3050	236404	737	89405
26	3815	240219	1389	90794
27	6153	246372	2294	93088
28	5545	251917	2592	95680
29	5788	257705	1247	96927
30	5434	263139	2502	99429
31	6057	269196	1894	101323
SEPT 1	3682	272878	2462	103785
2	3213	276091	2120	105905
3	1062	277153	1287	107192
4	1900	279053	802	107994

DAILY LARGE SOCKEYE COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
SEPT 5	1883	280936	899	108893
6	965	281901	980	109873
7	578	282479	979	110852
8	382	282861	924	111776
9	518	283379	794	112570
10	565	283944	660	113230
11	359	284303	333	113563
12	399	284702	150	113713
13	557	285259	215	113928
14	686	285945	284	114212
15	818	286763	234	114446
16	341	287104	180	114626
17	174	287278	163	114789
18	135	287413	163	114952
19	168	287581	50	115002
20	156	287737	70	115072
21	171	287908	55	115127
22	78	287986	89	115216
23	123	288109	144	115360
24	70	288179	63	115423
25	100	288279	20	115443
26	130	288409		115443
27	75	288484		115443
28	79	288563		115443
29	27	288590		115443
30	35	288625		115443
OCT. 1	23	288648		115443
2	15	288663		115443
3	0	288663		115443
4	0	288663		115443
TOTALS		288663		115443

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 30								
JULY 1					0	0		
2			0		0	0		
3			0		0	0	1	1
4			0		0	0	1	2
5			0		0	0	0	2
6			0		0	0	0	2
7			0		0	0	6	8
8			0	0	0	0	4	12
9			0	0	1	1	10	22
10			0	0	0	1	6	28
11			0	0	0	1	1	29
12			0	0	0	1	1	30
13			0	0	0	1	1	31
14			0	0	0	1	2	33
15			0	0	0	1	0	33
16			0	0	0	1	0	33
17			0	0	0	1	0	33
18			0	0	0	1	1	34
19			0	0	1	2	3	37
20			0	0	1	3	1	38
21			2	2	5	8	0	38
22			0	2	0	8	0	38
23			0	2	2	10	1	39
24			0	2	0	10	3	42
25			0	2	0	10	4	46
26			0	2	0	10	1	47
27			3	5	3	13	3	50
28			0	5	0	13	0	50
29			4	9	0	13	2	52
30			0	9	4	17	0	52
31			0	9	7	24	5	57
AUG. 1			2	11	1	25	4	61
			1	12	8	33	4	65

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	18	30	1	34	8	73		
3	30	60	0	34	12	85		
4	37	97	0	34	6	91		
5	13	110	6	40	9	100		
6	9	119	1	41	2	102		
7	11	130	4	45	5	107		
8	16	146	6	51	1	108		
9	11	157	3	54	2	110		
10	4	161	2	56	3	113		
11	7	168	20	76	2	115		
12	0	168	23	99	0	115		
13	1	169	11	110	4	119		
14	2	171	13	123	1	120		
15	12	183	24	147	2	122		
16	18	201	16	163	0	122		
17	20	221	27	190	2	124		
18	17	238	21	211	0	124		
19	13	251	4	215	2	126		
20	11	262	14	229	3	129		
21	18	280	36	265	9	138		
22	6	286	27	292	19	157		
23	20	306	23	315	8	165		
24	16	322	20	335	23	188		
25	8	330	9	344	15	203		
26	9	339	19	363	40	243		
27	10	349	20	383	37	280		
28	2	351	383	383	32	312		
29	0	351	383	383	36	348		
30	2	353	383	383	15	363		
31	4	357	383	383	23	386		
1	0	357	383	383	24	410		
2	3	360	383	383	11	421		
3	2	362	383	383	1	422		
4	1	363	383	383	5	427		
SEPT								

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5			3	366		383	12	439
6			9	375		383	7	446
7			6	381		383	6	452
8			3	384		383	2	454
9			0	384		383	5	459
10			1	385		383	3	462
11			0	385		383	2	464
12			4	389		383	0	464
13			41	430		383	0	464
14			22	452		383	1	465
15			14	466		383		465
16			6	472		383		465
17			21	493		383		465
TOTALS				493		383		465

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29									0	0
30	0	0							0	0
JULY 1	0	0					0	0	0	0
2	0	0					0	0	0	0
3	0	0					0	0	0	0
4	0	0					1	1	0	0
5	0	0			0	0	0	0	0	0
6	0	0	0	0	0	0	1	1	0	0
7	0	0	0	0	0	0	1	1	0	0
8	0	0	0	0	0	0	1	2	2	2
9	0	0	0	0	0	0	0	2	0	2
10	0	0	0	0	0	0	0	2	12	14
11	0	0	0	0	0	0	0	2	11	25
12	1	1	0	0	0	0	1	3	2	27
13	0	1	0	0	0	0	0	3	4	31
14	1	2	0	0	1	1	0	4	41	72
15	2	4	0	0	2	2	4	7	19	91
16	7	11	0	0	0	0	3	10	4	95
17	0	11	0	0	0	0	11	21	1	96
18	1	12	0	0	2	2	32	53	18	114
19	1	13	2	2	0	6	6	59	8	122
20	0	13	13	7	4	10	20	79	31	153
21	0	13	18	13	1	11	3	82	10	163
22	1	14	22	18	5	16	12	94	1	164
23	1	15	4	22	4	20	2	96	1	165
24	5	20	4	27	1	21	7	103	3	168
25	4	24	2	31	1	22	18	121	0	168
26	4	28	2	33	1	23	14	135	2	170
27	3	31	8	35	0	23	15	150	18	188
28	3	34	12	43	2	25	28	178	4	192
29	2	36	16	55	4	29	68	246	3	195
30	4	40	6	71	0	29	29	275	8	203
31	4	44	7	77	7	29	18	293	5	208
AUG. 1	1	45	5	89	6	36	2	295	5	213
				89		42	9	304	9	222

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	7	52	11	100	33	75	12	316	7	229
3	0	52	2	102	56	131	12	328	0	229
4	4	56	2	104	16	147	8	336	3	232
5	1	57	4	108	13	160	5	341	6	238
6	9	66	6	114	11	171	2	343	2	240
7	0	66	6	120	11	182	4	347	6	246
8	1	67	3	123	5	187	0	347	7	253
9	5	72	4	127	18	205	2	349	6	259
10	4	76	6	133	14	219	5	354	5	264
11	3	79	15	148	10	229	0	354	6	270
12	1	80	10	158	15	244	4	358	9	279
13	4	84	14	172	8	252	5	363	4	283
14	3	87	38	210	12	264	2	365	10	293
15	12	99	27	237	14	278	8	373	9	302
16	3	102	42	279	18	296	10	383	7	309
17	1	103	66	345	20	316	13	396	8	317
18	10	113	61	406	35	351	2	398	11	328
19	15	128	69	475	29	380	6	404	5	333
20	29	157	20	495	22	402	13	417	10	343
21	31	188	4	499	57	459	15	432	11	354
22	48	236	6	505	81	540	9	441	12	366
23	63	299	15	520	84	624	33	474	14	380
24	94	393	11	531	80	704	15	489	14	394
25	112	505	2	533	39	743	9	498	15	409
26	102	607	36	569	39	782	15	513	45	454
27	75	682	111	680	39	821	7	520	24	478
28	40	722	115	795	60	881	10	530	14	492
29	57	779	157	952	78	959	2	532	36	528
30	24	803	223	1175	67	1026	1	533	18	546
31	8	811	182	1357	57	1083	0	533	26	572
SEPT 1	27	838	79	1436	76	1159	2	535	40	612
2	13	851	52	1488	42	1201	5	540	17	629
3	34	885	44	1532	106	1307	3	543	14	643
4	13	898	36	1568	70	1377	4	547	56	699

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	5	903	20	1588	69	1446	9	556	24	723
6	8	911	36	1624	47	1493	2	558	17	740
7	4	915	95	1719	26	1519	2	560	15	755
8		915	122	1841	18	1537	0	560		755
9		915	69	1910	14	1551	0	560		755
10		915	46	1956		1551		560		755
11		915	52	2008		1551		560		755
12		915	35	2043		1551		560		755
13		915	40	2083		1551		560		755
14		915	32	2115		1551		560		755
15		915	34	2149		1551		560		755
16		915		2149		1551		560		755
17		915		2149		1551		560		755
18		915		2149		1551		560		755
19		915		2149		1551		560		755
TOTALS		915		2149		1551		560		755

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29					0	0				
30	0	0			0	0			0	0
JULY 1	0	0			0	0			0	0
2	0	0			0	0	0	0	0	0
3	0	0			0	0	0	0	0	0
4	0	0			0	0	0	0	1	1
5	0	0	0	0	0	0	0	0	2	2
6	0	0	0	0	0	0	3	3	1	3
7	0	0	0	0	0	0	4	7	2	5
8	0	0	0	0	0	0	0	7	1	6
9	0	0	0	0	1	1	0	7	0	6
10	0	0	0	0	2	3	2	9	0	6
11	0	0	0	0	0	3	2	11	3	9
12	0	0	0	0	0	3	4	15	0	9
13	0	0	0	0	1	4	1	16	0	9
14	0	0	0	0	1	5	3	19	4	13
15	0	0	0	0	2	7	4	23	5	18
16	0	0	0	0	2	9	6	29	6	19
17	3	3	0	0	1	10	4	33	6	19
18	0	3	0	0	1	11	11	44	6	25
19	0	3	0	0	4	15	12	56	9	34
20	2	5	0	0	4	19	9	65	10	44
21	7	12	0	0	8	27	9	74	6	50
22	9	21	0	0	10	37	1	75	8	58
23	6	27	0	0	6	43	5	80	10	68
24	6	33	0	0	4	47	5	85	5	73
25	14	47	2	2	5	52	12	97	23	96
26	11	58	0	2	7	59	11	108	33	129
27	4	62	0	2	2	61	8	116	83	212
28	3	65	2	4	2	63	6	122	68	280
29	5	70	2	6	3	66	8	130	36	316
30	16	86	0	6	0	66	6	136	47	363
31	6	92	15	21	5	71	6	142	71	434
AUG. 1	0	92	5	26	2	73	4	146	64	498

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1975			1976			1977			1978			1979		
	DAILY	CUM	DAILY	DAILY	CUM	DAILY	DAILY	CUM	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG.	2	15	107	4	30	2	75	6	152	46	544				
	3	23	130	0	30	2	77	2	154	50	594				
	4	5	135	0	30	2	79	3	157	47	641				
	5	12	147	0	30	2	81	7	164	30	671				
	6	9	156	0	30	1	82	11	175	81	752				
	7	7	163	0	30	1	83	7	182	24	776				
	8	12	175	1	31	1	84	6	188	60	836				
	9	9	184	0	31	2	86	3	191	37	873				
	10	22	206	0	31	0	86	1	192	83	956				
	11	6	212	0	31	2	88	5	197	144	1100				
	12	20	232	0	31	2	90	9	206	87	1187				
	13	35	267	0	31	2	92	13	219	77	1264				
	14	40	307	1	32	2	94	13	232	84	1348				
	15	47	354	0	32	1	95	14	246	152	1500				
	16	76	430	0	32	1	96	11	257	104	1604				
	17	75	505	3	35	1	97	11	268	70	1674				
	18	48	553	0	35	3	100	15	283	74	1748				
	19	58	611	5	40	3	103	19	302	71	1819				
	20	39	650	9	49	3	106	12	314	60	1879				
	21	42	692	33	82	1	107	11	325	19	1898				
	22	30	722	53	135	3	110	12	337	27	1925				
	23	28	750	90	225	1	111	15	352	55	1980				
	24	24	774	224	449	0	111	37	389	63	2043				
	25	78	852	332	781	3	114	32	421	44	2087				
	26	36	888	360	1141	5	119	36	457	76	2163				
	27	41	929	222	1363	4	123	25	482	60	2223				
	28	47	976	157	1520	6	129	38	520	27	2250				
	29	20	996	135	1655	8	137	39	559	29	2279				
	30	19	1015	181	1836	19	156	45	604	35	2314				
	31	16	1031	132	1968	21	177	34	638	39	2353				
SEPT	1	24	1055	117	2085	17	194	15	653	65	2418				
	2	12	1067	67	2152	10	204	24	677	52	2470				
	3	8	1075	85	2237	14	218	14	691	12	2482				
	4	0	1075	68	2305	25	243	14	705	12	2494				

SEPT

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5		1075	84	2389	19	262	4	709	19	2513
6		1075	37	2426	9	271	4	713	37	2550
7		1075	54	2480	4	275		713	20	2570
8		1075	51	2531	8	283		713	20	2590
9		1075	34	2565	1	284		713	24	2614
10		1075	15	2580	2	286		713	31	2645
11		1075	8	2588	3	289		713	31	2676
12		1075	3	2591		289		713	28	2704
13		1075	1	2592		289		713	34	2738
14		1075	15	2607		289		713	33	2771
15		1075	2	2609		289		713	17	2788
16		1075	2	2611		289		713	6	2794
17		1075	0	2611		289		713		2794
18		1075	1	2612		289		713		2794
19		1075	3	2615		289		713		2794
TOTALS		1075		2615		289		713		2794

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	0	561	6	109	0	75	3	244	1	37
3	1	562	10	119	1	76	4	248	3	40
4	6	568	6	125	0	76	9	257	1	41
5	4	572	2	127	0	76	22	279	10	51
6	8	580	1	128	3	79	14	293	5	56
7	15	595	1	129	3	82	17	310	2	58
8	16	611	1	130	14	96	17	327	0	58
9	9	620	7	137	5	101	21	348	0	58
10	11	631	9	146	13	114	12	360	0	58
11	11	642	15	161	22	136	12	372	0	58
12	15	657	8	169	48	184	24	396	3	61
13	13	670	13	182	32	216	18	414	10	71
14	7	677	20	202	54	270	15	429	5	76
15	6	683	27	229	41	311	17	446	20	96
16	12	695	28	257	61	372	27	473	33	129
17	10	705	40	297	125	497	23	496	35	164
18	9	714	36	333	95	592	33	529	31	195
19	16	730	52	385	12	604	13	542	18	213
20	20	750	39	424	29	633	18	560	19	232
21	25	775	39	463	34	667	36	596	50	282
22	58	833	20	483	38	705	40	636	106	388
23	36	869	15	498	33	738	29	665	158	546
24	62	931	20	518	40	778	63	728	140	686
25	92	1023	26	544	54	832	23	751	245	931
26	103	1126	16	560	31	863	23	774	69	1000
27	111	1237	7	567	12	875	19	793	29	1029
28	258	1495	12	579	17	892	6	799	49	1078
29	249	1744	10	589	25	917	30	829	54	1132
30	152	1896	30	619	20	937	20	849	84	1216
31	249	2145	43	662	13	950	44	893	168	1384
SEPT 1	169	2314	45	707	11	961	14	907	190	1574
2	185	2499	57	764	10	971	10	917	140	1714
3	209	2708	13	777	5	976	17	934	80	1794
4	87	2795	35	812	17	993	4	938	96	1890

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	52	2847	25	837	31	1024	6	944	56	1946
6	11	2858	35	872	24	1048	10	954	44	1990
7	22	2880	8	880	46	1094	1	955	35	2025
8	19	2899	1	881	5	1099		955	13	2038
9	35	2934	1	882	37	1136		955		2038
10	22	2956	0	882	7	1143		955		2038
11		2956	0	882	10	1153		955		2038
12		2956	1	883	7	1160		955		2038
13		2956	1	884		1160		955		2038
14		2956	0	884		1160		955		2038
15		2956	3	887		1160		955		2038
16		2956		887		1160		955		2038
17		2956		887		1160		955		2038
18		2956		887		1160		955		2038
19		2956		887		1160		955		2038
20		2956		887		1160		955		2038
21		2956		887		1160		955		2038
22		2956		887		1160		955		2038
23		2956		887		1160		955		2038
24		2956		887		1160		955		2038
25		2956		887		1160		955		2038
26		2956		887		1160		955		2038
27		2956		887		1160		955		2038
28		2956		887		1160		955		2038
29		2956		887		1160		955		2038
30		2956		887		1160		955		2038
OCT. 1		2956		887		1160		955		2038
2		2956		887		1160		955		2038
3		2956		887		1160		955		2038
4		2956		887		1160		955		2038
TOTALS		2956		887		1160		955		2038

DAILY JACK SOCKEYE COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
JUNE 29				
30				
JULY 1				
2				
3				
4	0	0		
5	0	0		
6	0	0		
7	0	0		
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	2	2
13	0	0	1	3
14	0	0	0	3
15	0	0	0	3
16	0	0	0	3
17	0	0	0	3
18	1	1	1	4
19	1	2	0	4
20	0	2	1	5
21	0	2	0	5
22	3	5	1	6
23	3	8	1	7
24	1	9	3	10
25	0	9	4	14
26	0	9	2	16
27	0	9	5	21
28	0	9	8	29
29	4	13	9	38
30	24	37	3	41
31	16	53	3	44
AUG. 1	12	65	3	47
				50

Appendix 1. Cont.

DAILY JACK SOCKEYE COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
AUG. 2	26	91	6	56
3	15	106	4	60
4	14	120	7	67
5	27	147	2	69
6	24	171	7	76
7	24	195	9	85
8	31	226	2	87
9	13	239	10	97
10	11	250	6	103
11	24	274	4	107
12	29	303	6	113
13	27	330	8	121
14	36	366	6	127
15	21	387	2	129
16	13	400	12	141
17	20	420	4	145
18	33	453	0	145
19	30	483	8	153
20	24	507	25	178
21	27	534	43	221
22	53	587	24	245
23	26	613	19	264
24	46	659	9	273
25	6	665	8	281
26	15	680	8	289
27	19	699	33	322
28	19	718	24	346
29	32	750	13	359
30	36	786	32	391
31	39	825	26	417
SEPT 1	16	841	28	445
2	41	882	31	476
3	6	888	20	496
4	15	903	16	512

DAILY JACK SOCKEYE COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
SEPT 5	21	924	20	532
6	16	940	23	555
7	12	952	27	582
8	9	961	20	602
9	5	966	29	631
10	9	975	19	650
11	11	986	16	666
12	20	1006	10	676
13	13	1019	15	691
14	21	1040	25	716
15	19	1059	27	743
16	12	1071	14	757
17	7	1078	16	773
18	4	1082	16	789
19	4	1086	1	790
20	6	1092	6	796
21	6	1098	5	801
22	2	1100	8	809
23	2	1102	20	829
24	2	1104	9	838
25	0	1104	0	838
26	3	1107		838
27	0	1107		838
28	1	1108		838
29	1	1109		838
30	0	1109		838
OCT. 1	0	1109		838
2	0	1109		838
3	0	1109		838
4	0	1109		838
TOTALS		1109		838

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 30								
JULY 1	0		0		0	0	0	0
2	0		0		0	0	6	6
3	0		0		1	1	2	8
4	0	0	0		0	1	4	12
5	0	0	0		0	1	18	30
6	0	0	0		0	1	21	51
7	0	0	0		0	1	21	72
8	0	0	0		0	1	14	86
9	1	1	2	3	0	1	0	86
10	0	1	13	16	0	1	0	86
11	2	3	18	34	0	1	0	86
12	0	3	5	39	0	1	2	88
13	0	3	11	50	2	3	13	101
14	0	3	5	55	0	3	17	118
15	0	3	11	66	0	3	29	147
16	2	5	6	72	3	6	16	163
17	0	5	35	107	2	8	46	209
18	0	5	35	142	12	20	67	276
19	0	5	20	162	15	35	27	303
20	0	5	9	171	38	73	9	312
21	2	7	6	177	15	88	12	324
22	2	9	4	181	7	95	6	330
23	3	12	5	186	16	111	15	345
24	2	14	7	193	10	121	5	350
25	3	17	10	203	17	138	7	357
26	4	21	18	221	14	152	8	365
27	2	23	7	228	6	158	6	371
28	4	27	6	234	9	167	2	373
29	3	30	0	234	6	173	5	378
30	0	30	1	235	6	179	5	383
31	8	38	9	244	16	195	19	402
AUG. 1	5	43						

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	8	51	9	253	11	206	16	418
3	4	55	21	274	8	214	15	433
4	1	56	16	290	5	219	3	436
5	9	65	25	315	13	232	3	439
6	6	71	15	330	5	237	32	471
7	12	83	11	341	16	253	15	486
8	7	90	3	344	25	278	6	492
9	4	94	21	365	39	317	5	497
10	2	96	1	366	5	322	3	500
11	0	96	2	368	22	344	1	501
12	3	99	0	368	27	371	1	502
13	12	111	0	368	17	388	2	504
14	3	114	2	370	1	389	0	504
15	4	118	4	374	19	408	6	510
16	3	121	1	375	13	421	0	510
17	2	123	9	384	7	428	4	514
18	2	125	7	391	5	433	3	517
19	5	130	5	396	8	441	4	521
20	7	137	7	403	1	442	1	522
21	5	142	7	410	4	446	7	529
22	5	147	0	410	2	448	9	538
23	8	155	8	418	0	448	3	541
24	3	158	13	431	2	450	7	548
25	4	162	3	434	1	451	15	563
26	6	168	3	437	0	451	31	594
27	0	168	2	439	0	451	23	617
28	0	168	1	440	0	451	16	633
29	0	168	0	440	0	451	64	697
30	0	168	0	440	0	451	50	747
31		168	2	442	1	451	58	805
SEPT 1		168	1	443	19	451	26	831
2		168	3	446	3	451	15	846
3		168	7	453	7	451	9	855
4		168	0	453	0	451	6	861

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5		168	2	455		451	22	883
6		168	1	456		451	21	904
7		168	8	464		451	24	928
8		168	3	467		451	25	953
9		168	4	471		451	11	964
10		168	2	473		451	11	975
11		168	0	473		451	4	979
12		168	0	473		451	0	979
13		168	0	473		451	7	986
14		168	1	474		451	3	989
15		168	0	474		451		989
16		168	0	474		451		989
17		168	0	474		451		989
TOTALS		168		474		451		989

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29	1	1							0	0
30	0	1							10	10
JULY 1	0	1					0	0	12	22
2	0	1					0	0	8	30
3	0	1					0	0	12	42
4	0	1					0	0	7	49
5	1	2	1	0	1	1	0	0	0	49
6	1	3	0	0	0	1	0	0	0	51
7	2	5	0	1	0	1	0	0	2	53
8	0	5	0	1	0	1	0	0	3	56
9	0	5	0	1	0	1	1	1	1	57
10	0	5	3	4	0	1	1	2	2	59
11	0	5	0	4	0	1	1	3	3	62
12	9	14	0	4	1	2	6	9	4	66
13	16	30	1	5	0	2	26	35	1	67
14	12	42	1	6	0	2	24	59	8	75
15	13	55	0	6	0	2	8	67	8	83
16	5	60	2	8	3	5	16	83	22	105
17	4	64	0	8	2	7	15	98	11	116
18	9	73	5	13	0	7	13	111	11	127
19	6	79	4	17	2	9	11	122	16	143
20	3	82	3	20	4	13	6	128	7	150
21	0	82	16	36	11	24	8	136	10	160
22	10	92	4	40	13	37	1	137	8	168
23	14	106	4	44	6	43	13	150	6	174
24	14	120	3	47	2	45	39	189	5	179
25	17	137	5	52	2	47	20	209	1	180
26	4	141	6	58	8	55	12	221	4	184
27	13	154	4	62	1	56	26	247	3	187
28	5	159	9	71	5	61	62	309	3	190
29	5	164	11	82	4	65	39	348	3	193
30	1	165	5	87	20	85	19	367	9	202
31	2	167	5	92	6	91	3	370	10	212
AUG. 1	8	175	5	97	6	97	6	376	14	224

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	1	626	3	287	3	216	0	443	0	304
6	6	632	1	288	1	217	2	445	0	304
7	3	635	5	293	1	218	1	446	0	304
8		635	4	297	1	219	1	447		304
9		635	2	299	0	219	0	447		304
10		635	3	302		219		447		304
11		635	1	303		219		447		304
12		635	2	305		219		447		304
13		635	2	307		219		447		304
14		635	0	307		219		447		304
15		635	0	307		219		447		304
16		635		307		219		447		304
17		635		307		219		447		304
18		635		307		219		447		304
19		635		307		219		447		304
TOTALS		635		307		219		447		304

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29					0	0				
30					0	0			0	0
JULY 1	0	0			0	0			0	0
2	0	0			1	1			3	3
3	0	0			3	4			4	4
4	0	0			13	17			19	19
5	0	0	0	0	6	23			35	35
6	0	0	0	0	8	31			41	41
7	0	0	0	0	2	33			44	44
8	0	0	0	0	11	44			51	51
9	0	0	0	0	6	50			61	61
10	0	0	0	0	5	55			67	67
11	0	0	0	0	4	59			71	71
12	0	0	0	0	5	64			78	78
13	0	0	0	0	7	71			79	79
14	0	0	0	0	11	82			83	83
15	0	0	0	0	15	97			86	86
16	0	0	1	1	12	109			92	92
17	0	0	1	2	4	113			106	106
18	0	0	0	2	2	115			116	116
19	0	0	0	2	13	128			122	122
20	0	0	0	3	14	142			126	126
21	0	1	1	3	16	158			129	129
22	7	8	0	3	12	170			132	132
23	8	16	0	3	7	177			138	138
24	0	16	0	3	12	189			146	146
25	3	19	0	3	6	195			150	150
26	4	23	3	6	6	201			155	155
27	1	24	2	8	4	205			163	163
28	0	24	3	11	2	207			167	167
29	4	28	4	15	2	209			168	168
30	7	35	10	25	2	211			172	172
31	13	48	3	28	4	215			174	174
AUG. 1	5	53	6	34	5	220			175	175

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	7	60	5	39	2	222	2	177	12	147
3	4	64	4	43	5	227	2	179	16	163
4	6	70	5	48	9	236	0	179	6	169
5	3	73	8	56	5	241	5	184	0	169
6	5	78	8	64	4	245	0	184	10	179
7	9	87	7	71	5	250	4	188	0	179
8	7	94	10	81	3	253	1	189	1	180
9	3	97	11	92	0	253	1	190	3	183
10	4	101	20	112	5	258	5	195	0	183
11	6	107	8	120	7	265	4	199	5	188
12	0	107	6	126	8	273	3	202	2	190
13	5	112	3	129	5	278	1	203	0	190
14	5	117	10	139	1	279	3	206	0	190
15	1	118	18	157	3	282	2	208	1	191
16	4	122	17	174	5	287	2	210	8	199
17	11	133	54	228	4	291	1	211	0	199
18	5	138	70	298	3	294	1	212	0	199
19	11	149	87	385	0	294	0	212	4	203
20	11	160	60	445	1	295	0	212	4	207
21	6	166	50	495	12	307	0	212	2	209
22	3	169	29	524	8	315	0	212	2	211
23	0	169	14	538	4	319	0	212	3	214
24	1	170	17	555	2	321	0	212	6	220
25	0	170	12	567	11	332	0	212	0	220
26	2	172	9	576	3	335	0	212	2	222
27	1	173	20	596	5	340	1	213	3	225
28	4	177	12	608	5	345	0	213	1	226
29	0	177	14	622	4	349	0	213	0	226
30	1	178	16	638	3	352	0	213	2	228
31	0	178	14	652	6	358	0	213	5	233
SEPT 1	1	179	16	668	0	358	2	215	0	233
2	0	179	15	683	3	361	1	216	2	235
3	1	180	17	700	2	363	2	218	0	235
4	0	180	12	712	1	364	0	218	3	238

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5		180	5	717	2	366	0	218	1	239
6		180	4	721	2	368	6	224	1	240
7		180	2	723	0	368		224	1	241
8		180	1	724	1	369		224	3	244
9		180	3	727	0	369		224	5	249
10		180	0	727	0	369		224	1	250
11		180	0	727	0	369		224	2	252
12		180	0	727		369		224	2	254
13		180	0	727		369		224	3	257
14		180	0	727		369		224		262
15		180	2	729		369		224	2	264
16		180	0	729		369		224	0	264
17		180	0	729		369		224		264
18		180	0	729		369		224		264
19		180	0	729		369		224		264
TOTALS		180		729		369		224		264

DAILY LARGE CHINOOK COUNTS

44

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	2	475	2	297	9	403	7	445	2	624
6	7	482	1	298	3	406	3	448	0	624
7	2	484	1	299	6	412	0	448		624
8	0	484	0	299	0	412		448		624
9	2	486	3	302	2	414		448		624
10	0	486	0	302	2	416		448		624
11		486	0	302	4	420		448		624
12		486	0	302	2	422		448		624
13		486	0	302		422		448		624
14		486	0	302		422		448		624
15		486	0	302		422		448		624
16		486	0	302		422		448		624
17		486		302		422		448		624
18		486		302		422		448		624
19		486		302		422		448		624
20		486		302		422		448		624
21		486		302		422		448		624
22		486		302		422		448		624
23		486		302		422		448		624
24		486		302		422		448		624
25		486		302		422		448		624
26		486		302		422		448		624
27		486		302		422		448		624
28		486		302		422		448		624
29		486		302		422		448		624
30		486		302		422		448		624
OCT. 1		486		302		422		448		624
2		486		302		422		448		624
3		486		302		422		448		624
4		486		302		422		448		624
TOTALS		486		302		422		448		624

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS				
DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
JUNE 29				
30				
JULY 1				
2				
3				
4	0	0		
5	0	0		
6	0	0		
7	0	0		
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	1	1
19	0	0	0	1
20	0	0	0	1
21	0	0	0	1
22	1	1	11	12
23	1	2	1	13
24	1	3	3	16
25	2	5	3	19
26	4	9	7	26
27	25	34	17	43
28	19	53	22	65
29	29	82	16	81
30	30	112	64	145
31	32	144	38	183
AUG. 1	13	157	19	202
			20	222

DAILY LARGE CHINOOK COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
AUG. 2	58	215	8	230
3	38	253	8	238
4	45	298	28	266
5	28	326	21	287
6	22	348	16	303
7	12	360	20	323
8	23	383	13	336
9	21	404	21	357
10	7	411	13	370
11	8	419	20	390
12	17	436	0	390
13	5	441	10	400
14	5	446	24	424
15	13	459	13	437
16	1	460	6	443
17	8	468	10	453
18	13	481	0	453
19	4	485	3	456
20	7	492	1	457
21	3	495	22	479
22	3	498	6	485
23	7	505	5	490
24	11	516	2	492
25	1	517	2	494
26	2	519	1	495
27	2	521	5	500
28	2	523	7	507
29	3	526	9	516
30	1	527	8	524
31	13	540	4	528
SEPT 1	11	551	10	538
2	3	554	12	550
3	0	554	5	555
4	2	556	0	555

Appendix 1. Cont.

DAILY LARGE CHINOOK COUNTS				
DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
SEPT 5	3	559	3	558
6	4	563	5	563
7	3	566	2	565
8	2	568	2	567
9	4	572	11	578
10	0	572	6	584
11	0	572	13	597
12	0	572	1	598
13	5	577	7	605
14	4	581	1	606
15	2	583	6	612
16	5	588	2	614
17	3	591	3	617
18	1	592	2	619
19	1	593	0	619
20	0	593	0	619
21	1	594	6	625
22	3	597	0	625
23	1	598	0	625
24	0	598	0	625
25	0	598	0	626
26	0	598	0	626
27	0	598	0	626
28	1	599	0	626
29	0	599	0	626
30	0	599	0	626
OCT. 1	0	599	0	626
2	0	599	0	626
3	0	599	0	626
4	0	599	0	626
TOTALS		599		626

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 30								
JULY 1					0	0		
2					0	0		
3					0	0	0	0
4					0	0	0	0
5					0	0	0	0
6					0	0	0	0
7			0	0	0	0	0	0
8			0	0	1	1	1	1
9			0	0	1	1	3	4
10			1	1	0	1	6	10
11			1	2	0	1	7	17
12			0	2	0	1	0	17
13			0	2	0	1	0	17
14			0	2	0	1	1	18
15			0	2	0	1	1	20
16			0	2	0	1	2	39
17			0	2	0	1	19	62
18			1	3	0	1	23	83
19			0	3	0	1	21	118
20			2	5	0	1	35	141
21			0	5	0	1	23	157
22			0	5	0	1	16	165
23			0	5	0	1	8	179
24			0	5	0	1	14	194
25			0	5	0	1	15	207
26			0	5	0	1	13	212
27			0	5	0	1	5	217
28			0	5	0	1	5	220
29			0	5	0	1	3	220
30			0	5	0	1	0	221
31			0	5	4	5	1	227
AUG. 1			0	5	8	13	6	236
					4	17	9	243

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2			0	5	2	19	7	250
3			0	5	2	21	6	256
4			1	6	0	21	3	259
5			0	6	6	27	1	260
6			1	7	1	28	16	276
7			2	9	7	35	2	278
8			0	9	14	49	4	282
9			2	11	27	76	13	295
10			0	11	8	84	0	295
11			0	11	7	91	1	296
12			0	11	2	93	2	298
13			0	11	6	99	3	301
14			0	11	2	101	6	307
15			0	11	1	102	2	309
16			0	11	5	107	0	309
17			0	11	2	109	3	312
18			0	11	10	119	2	314
19			0	11	0	119	2	316
20			0	11	0	119	1	317
21			0	11	0	119	1	318
22			0	11	0	119	1	319
23			0	11	0	119	2	321
24			0	11	0	119	5	326
25			0	11	0	119	9	335
26			1	12	0	119	14	349
27			0	12	0	119	12	361
28			0	12	0	119	19	380
29			0	12	0	119	20	400
30			1	13	0	119	15	415
31			0	13	0	119	12	427
SEPT 1			0	13	0	119	16	443
2			0	13	0	119	7	450
3			1	14	0	119	4	454
4			0	14	0	119	6	460

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1966		1967		1968		1969	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5			0	14		119	12	472
6			0	14		119	8	480
7			2	16		119	11	491
8			0	16		119	7	498
9			0	16		119	7	505
10			0	16		119	11	516
11			0	16		119	3	519
12			0	16		119	0	519
13			0	16		119	4	523
14			0	16		119	1	524
15			0	16		119		524
16			1	17		119		524
17			0	17		119		524
TOTALS				17		119		524

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29	0	0							0	0
30	0	0							0	0
JULY 1	0	0					0	0	0	0
2	0	0					0	0	0	0
3	0	0					0	0	0	0
4	0	0					0	0	0	0
5	1	1			0	0	0	0	0	0
6	0	1			0	0	0	0	0	0
7	0	1			0	0	0	0	0	0
8	0	1			0	0	0	0	0	0
9	0	1			0	0	0	0	0	0
10	0	1			1	1	0	0	0	0
11	0	1			0	1	0	0	0	0
12	1	2			0	1	0	0	0	0
13	1	3			0	1	0	0	0	0
14	4	7			0	1	0	0	0	0
15	6	13	1	1	0	2	0	0	0	0
16	0	13	1	2	0	3	0	0	0	0
17	3	16	0	3	0	3	0	0	0	0
18	13	29	2	5	0	5	0	0	1	1
19	12	41	0	5	0	5	0	0	1	2
20	3	44	2	7	0	7	0	0	0	2
21	3	47	2	9	2	9	0	0	0	3
22	4	51	0	9	0	9	0	0	0	3
23	3	54	7	16	0	16	0	0	2	5
24	13	67	5	21	0	21	2	2	3	8
25	12	79	2	23	0	23	0	2	2	10
26	15	94	8	31	0	31	0	2	0	10
27	12	106	5	36	0	36	2	4	2	12
28	4	110	7	43	0	43	2	13	2	14
29	3	113	6	49	1	49	9	15	2	16
30	2	115	1	50	4	50	2	15	6	22
31	5	120	2	52	3	52	0	15	1	23
AUG. 1	2	122	3	55	12	27	0	15	1	24

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	7	129	1	56	5	32	4	19	3	27
3	2	131	2	58	11	43	1	20	5	32
4	6	137	0	58	0	43	0	20	1	33
5	1	138	2	60	0	43	0	20	5	38
6	3	141	0	60	0	43	0	20	2	40
7	6	147	3	63	0	43	1	21	6	46
8	1	148	9	72	0	43	0	21	7	53
9	3	151	3	75	0	43	0	21	4	57
10	4	155	7	82	1	44	0	21	2	59
11	1	156	5	87	0	44	0	21	7	66
12	3	159	10	97	0	44	0	21	7	73
13	2	161	5	102	1	45	0	21	3	76
14	2	163	10	112	1	46	1	22	7	83
15	6	169	11	123	2	48	0	22	5	88
16	3	172	7	130	1	49	0	22	3	91
17	0	172	17	147	2	51	1	23	2	93
18	3	175	17	164	3	54	0	23	5	98
19	13	188	17	181	4	58	0	23	2	100
20	14	202	9	190	1	59	1	24	3	103
21	9	211	6	196	0	59	1	25	7	110
22	21	232	3	199	3	62	0	25	0	110
23	16	248	5	204	2	64	0	25	4	114
24	27	275	3	207	6	70	0	25	7	121
25	35	310	9	216	1	71	0	25	8	129
26	35	345	4	220	3	74	0	25	5	134
27	53	398	4	224	1	75	0	25	2	136
28	20	418	5	229	4	79	1	26	1	137
29	28	446	15	244	4	83	0	26	2	139
30	12	458	23	267	2	85	0	26	0	139
31	11	469	16	283	0	85	0	26	0	139
1	20	489	13	296	0	85	0	26	0	139
2	10	499	4	300	0	85	0	26	0	139
3	15	514	6	306	0	85	0	26	0	139
4	17	531	7	313	0	85	0	26	1	140

SEPT

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	6	537	2	315	0	85	0	26	0	140
6	5	542	2	317	0	85	0	26	2	142
7	4	546	7	324	0	85	0	26	1	143
8		546	5	329	0	85	0	26		143
9		546	3	332	0	85	0	26		143
10		546	2	334		85		26		143
11		546	0	334		85		26		143
12		546	2	336		85		26		143
13		546	2	338		85		26		143
14		546	0	338		85		26		143
15		546	0	338		85		26		143
16		546		338		85		26		143
17		546		338		85		26		143
18		546		338		85		26		143
19		546		338		85		26		143
TOTALS		546		338		85		26		143

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29					0	0				
30	0	0			0	0			0	0
JULY 1	0	0			0	0			0	0
2	0	0			0	0			1	1
3	0	0			0	0			0	0
4	0	0			2	2	6	8	0	1
5	0	0	0	0	0	2	6	14	0	1
6	0	0	0	0	2	4	1	15	0	1
7	0	0	0	0	1	5	8	23	0	1
8	0	0	0	0	4	9	9	32	0	1
9	0	0	0	0	0	9	0	32	0	1
10	0	0	0	0	3	12	3	35	0	1
11	0	0	0	0	2	14	3	38	0	1
12	0	0	0	0	2	16	4	42	0	1
13	0	0	0	0	4	20	0	42	0	1
14	0	0	0	0	3	23	0	42	0	1
15	0	0	0	0	2	25	2	44	0	1
16	0	0	0	0	1	26	1	45	0	1
17	0	0	0	0	4	30	4	49	0	1
18	0	0	0	0	0	30	6	55	0	1
19	0	0	0	0	2	32	7	62	0	1
20	0	0	0	0	4	36	8	70	0	1
21	0	0	0	0	4	40	0	70	0	1
22	0	0	0	0	8	48	1	71	0	1
23	1	1	0	0	6	54	2	73	0	1
24	0	1	0	0	12	66	4	77	0	1
25	0	1	0	0	5	71	1	78	0	1
26	0	1	0	0	5	76	4	82	0	1
27	0	1	0	0	9	85	4	86	0	1
28	0	1	1	1	7	92	0	86	0	1
29	0	1	1	2	2	94	0	86	1	2
30	1	2	0	2	2	96	1	87	0	2
31	5	7	0	2	1	97	0	87	4	6
AUG. 1	0	7	0	2	0	97	0	87	1	7

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5		146	8	103	0	138	0	157	0	25
6		146	3	106	0	138	0	157	1	26
7		146	3	109	0	138		157	0	26
8		146	0	109	0	138		157	0	26
9		146	0	109	0	138		157	0	26
10		146	0	109	0	138		157	0	26
11		146	0	109	0	138		157	0	26
12		146	0	109	0	138		157	0	26
13		146	0	109		138		157	0	26
14		146	0	109		138		157	0	26
15		146	0	109		138		157	0	26
16		146	1	110		138		157	0	26
17		146	0	110		138		157		26
18		146	0	110		138		157		26
19		146	0	110		138		157		26
TOTALS		146		110		138		157		26

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	0	2	3	20	0	48	2	51	3	59
3	0	2	11	31	1	49	2	53	3	62
4	0	2	7	38	1	50	2	55	3	65
5	0	2	16	54	0	50	3	58	1	66
6	2	4	2	56	2	52	1	59	0	66
7	1	5	4	60	0	52	0	59	1	67
8	1	6	2	62	4	56	0	59	0	67
9	1	7	5	67	3	59	3	62	0	67
10	0	7	6	73	3	62	0	62	0	67
11	3	10	12	85	0	62	1	63	5	72
12	1	11	5	90	0	62	0	63	5	77
13	4	15	11	101	0	62	0	63	3	80
14	1	16	12	113	2	64	0	63	8	88
15	0	16	7	120	0	64	1	64	7	95
16	0	16	5	125	0	64	1	65	13	108
17	2	18	10	135	16	80	1	66	4	112
18	0	18	7	142	5	85	1	67	3	115
19	2	20	2	144	2	87	0	67	3	118
20	0	20	6	150	1	88	0	67	3	121
21	2	22	5	155	0	88	3	70	2	123
22	1	23	5	160	0	88	0	70	6	129
23	1	24	3	163	0	88	1	71	3	132
24	0	24	0	163	3	91	1	72	3	135
25	1	25	9	172	0	91	0	72	0	135
26	0	25	4	176	0	91	0	72	1	136
27	1	26	1	177	0	91	2	74	4	140
28	2	28	0	177	0	91	0	74	9	149
29	0	28	0	177	0	91	0	74	3	152
30	1	29	0	177	0	91	0	74	0	152
31	0	29	2	179	0	91	1	75	1	153
1	0	29	1	180	0	91	1	76	3	156
2	0	29	0	180	0	91	0	76	1	157
3	0	29	0	180	0	91	1	77	1	158
4	0	29	0	180	0	91	0	77	0	158

SEPT

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	1	30	0	180	0	91	0	77	0	158
6	1	31	1	181	0	91	0	77	0	158
7	0	31	0	181	0	91	0	77		158
8	0	31	0	181	0	91		77		158
9	0	31	0	181	1	92		77		158
10	0	31	0	181	2	94		77		158
11	0	31	0	181	4	98		77		158
12		31	0	181	4	102		77		158
13		31	0	181		102		77		158
14		31	0	181		102		77		158
15		31	1	182		102		77		158
16		31		182		102		77		158
17		31		182		102		77		158
18		31		182		102		77		158
19		31		182		102		77		158
20		31		182		102		77		158
21		31		182		102		77		158
22		31		182		102		77		158
23		31		182		102		77		158
24		31		182		102		77		158
25		31		182		102		77		158
26		31		182		102		77		158
27		31		182		102		77		158
28		31		182		102		77		158
29		31		182		102		77		158
30		31		182		102		77		158
OCT. 1		31		182		102		77		158
2		31		182		102		77		158
3		31		182		102		77		158
4		31		182		102		77		158
TOTALS		31		182		102		77		158

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS				
DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
JUNE 29				
30				
JULY 1				
2				
3				
4	0	0		
5	0	0		
6	0	0		
7	0	0		
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	1	1
27	0	0	0	1
28	0	0	0	1
29	0	0	2	3
30	8	8	0	3
31	13	21	1	4
AUG. 1	9	30	1	5

Appendix 1. Cont.

DAILY JACK CHINOOK COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
AUG. 2	26	56	0	5
3	11	67	2	7
4	10	77	3	10
5	6	83	1	11
6	4	87	2	13
7	4	91	1	14
8	5	96	0	14
9	5	101	1	15
10	2	103	0	15
11	5	108	1	16
12	5	113	0	16
13	1	114	2	18
14	1	115	6	24
15	2	117	1	25
16	0	117	3	28
17	2	119	3	31
18	1	120	0	31
19	0	120	0	31
20	0	120	0	31
21	1	121	0	31
22	0	121	0	31
23	0	121	0	31
24	1	122	0	31
25	0	122	0	31
26	0	122	0	31
27	0	122	0	31
28	0	122	1	32
29	0	122	0	32
30	0	122	0	32
31	0	122	0	32
SEPT 1	2	124	0	32
2	1	125	0	32
3	0	125	0	32
4	0	125	0	32

DAILY JACK CHINOOK COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
SEPT 5	0	125	0	32
6	0	125	0	32
7	0	125	1	33
8	0	125	0	33
9	0	125	0	33
10	0	125	0	33
11	0	125	0	33
12	0	125	0	33
13	0	125	0	33
14	0	125	1	34
15	0	125	0	34
16	1	126	0	34
17	3	129	0	34
18	0	129	0	34
19	0	129	0	34
20	0	129	0	34
21	1	130	0	34
22	0	130	0	34
23	0	130	0	34
24	0	130	0	34
25	0	130	0	34
26	0	130	0	34
27	0	130	0	34
28	0	130	0	34
29	0	130	0	34
30	0	130	0	34
OCT. 1	0	130	0	34
2	0	130	0	34
3	0	130	0	34
4	0	130	0	34
TOTALS		130		34

Appendix 1. Cont.

DAILY COHO COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2			0	0		0	0	3	1	23
3			0	0		0		3	0	23
4			0	0		0		3	0	23
5			0	0		0		3	0	23
6			0	0		0		3	0	23
7			0	0		0		3	0	23
8			0	0		0		3	0	23
9			0	0		0		3	3	26
10			0	0		0		3	2	28
11			0	0		0		3	0	28
12			0	0		0		3	0	28
13			0	0		0		3	0	28
14			0	0		0		3	0	28
15			0	0		0		3	1	29
16			0	0		0		3	0	29
17			1	1		1		3	0	30
18			0	1		1		5	0	30
19			0	1		1		5	0	30
20			0	1		1		11	0	30
21			0	1		1		27	0	31
22			0	1		1		43	1	31
23			0	1		1		51	0	33
24			0	1		1		115	2	38
25			0	1		1		168	5	55
26			0	1		1		213	17	60
27			0	1		1		246	5	81
28			0	1		1		265	21	90
29			0	1		1		284	9	142
30			1	2		2		319	52	169
31			13	15		15		335	27	169
SEPT 1			3	18		18		355	46	215
2			1	19		19		365	59	274
3			0	19		19		365	55	329
4			10	29		29		393	19	348
			7	36		36		406	9	357
								424	13	370

Appendix 1. Cont.

DAILY COHO COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5					12	48	27	451	11	381
6					19	67	16	467	8	389
7					16	83	11	478	5	394
8					11	94	10	488		394
9					9	103	1	489		394
10						103		489		394
11						103		489		394
12						103		489		394
13						103		489		394
14						103		489		394
15						103		489		394
16						103		489		394
17						103		489		394
18						103		489		394
19						103		489		394
TOTALS		0		0		103		489		394

Appendix I. Cont.

DAILY COHO COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29	0				0	0				
30	0	0			0	0			0	0
JULY 1	0	0			0	0			0	0
2	0	0			0	0			0	0
3	0	0			0	0			0	0
4	0	0			0	0			0	0
5	0	0	0	0	0	0			0	0
6	0	0	0	0	0	0			0	0
7	0	0	0	0	0	0			0	0
8	0	0	0	0	0	0			0	0
9	0	0	0	0	0	0			0	0
10	0	0	0	0	0	0			0	0
11	0	0	0	0	0	0			0	0
12	0	0	0	0	0	0			0	0
13	0	0	0	0	0	0			0	0
14	0	0	0	0	0	0			0	0
15	0	0	0	0	0	0			0	0
16	0	0	0	0	0	0			0	0
17	0	0	0	0	0	0			0	0
18	0	0	0	0	0	0			0	0
19	0	0	0	0	0	0			0	0
20	0	0	0	0	0	0			0	0
21	0	0	0	0	0	0			0	0
22	0	0	0	0	0	0			0	0
23	0	0	0	0	0	0			0	0
24	0	0	0	0	0	0			0	0
25	0	0	0	0	0	0			0	0
26	0	0	0	0	0	0			0	0
27	0	0	0	0	0	0			0	0
28	0	0	0	0	0	0			0	0
29	1	1	0	0	0	0			0	0
30	0	1	0	0	0	0			0	0
31	0	1	0	0	0	0			0	0
AUG. 1	0	1			0	0			0	0

Appendix 1. Cont.

DAILY COHO COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	0	1	0	0	0	0	0	0	0	0
3	0	1	0	0	0	0	0	0	0	0
4	0	1	0	0	0	0	0	0	0	0
5	0	1	0	0	0	0	0	0	0	0
6	0	1	0	0	0	0	0	0	0	0
7	0	1	0	0	0	0	0	0	0	0
8	0	1	0	0	0	0	0	0	0	0
9	0	1	0	0	0	0	0	0	0	0
10	0	1	0	0	0	0	0	0	0	0
11	0	1	0	0	0	0	0	0	0	0
12	0	1	0	0	0	0	0	0	0	0
13	0	1	0	0	0	0	0	0	0	0
14	0	1	0	0	0	0	0	0	0	0
15	0	1	0	0	0	0	0	0	0	0
16	0	1	0	0	0	0	0	0	0	0
17	7	8	0	0	0	0	0	0	0	0
18	7	15	0	0	0	0	0	0	1	1
19	2	17	0	0	0	0	0	0	0	1
20	8	25	0	0	0	0	0	0	0	1
21	27	52	0	0	0	0	0	0	0	1
22	33	85	0	0	0	0	1	1	0	1
23	14	99	0	0	0	0	0	0	0	1
24	26	125	0	0	0	0	5	6	1	2
25	29	154	1	1	0	0	13	19	2	4
26	68	222	4	5	0	0	19	38	4	8
27	72	294	8	13	0	0	55	93	5	13
28	107	401	60	73	5	5	35	128	4	17
29	132	533	54	127	9	14	93	221	2	19
30	67	600	68	195	20	34	107	328	16	35
31	97	697	90	285	25	59	72	400	14	49
1	94	791	129	414	31	90	102	502	22	71
2	162	953	135	549	22	112	154	656	27	98
3	65	1018	76	625	24	136	90	746	29	127
4	59	1077	85	710	74	210	95	841	0	127
	2	1079	80	790	159	369	122	963	8	135

SEPT

Appendix 1. Cont.

DAILY COHO COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5		1079	100	890	101	470	79	1042	14	149
6		1079	48	938	152	622	104	1146	35	184
7		1079	57	995	160	782		1146	35	219
8		1079	57	1052	188	970		1146	27	246
9		1079	48	1100	27	997		1146	28	274
10		1079	28	1128	34	1031		1146	31	305
11		1079	10	1138	39	1070		1146	40	345
12		1079	12	1150		1070		1146	62	407
13		1079	14	1164		1070		1146	65	472
14		1079	75	1239		1070		1146	63	535
15		1079	29	1268		1070		1146	29	564
16		1079	13	1281		1070		1146	10	574
17		1079	2	1283		1070		1146		574
18		1079	11	1294		1070		1146		574
19		1079	32	1326		1070		1146		574
TOTALS		1079		1326		1070		1146		574

Appendix 1. Cont.

DAILY COHO COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29	0	0			0	0				
30	0	0			0	0				
JULY 1	0	0			0	0				
2	0	0			0	0				
3	0	0			0	0				
4	0	0			0	0				
5	0	0			0	0				
6	0	0			0	0				
7	0	0			0	0				
8	0	0			0	0				
9	0	0			0	0				
10	0	0			0	0				
11	0	0			0	0				
12	0	0			0	0				
13	0	0			0	0				
14	0	0			0	0				
15	0	0			0	0				
16	0	0			0	0				
17	0	0			0	0				
18	0	0			0	0				
19	0	0			0	0				
20	0	0			0	0				
21	0	0			0	0				
22	0	0			0	0				
23	0	0			0	0				
24	0	0			0	0				
25	0	0			0	0				
26	0	0			0	0				
27	0	0			0	0				
28	0	0			0	0				
29	0	0			0	0				
30	0	0			0	0				
31	0	0			0	0				
AUG. 1	0	0			0	0				

Appendix 1. Cont.

DAILY COHO COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	1	1	0	0
5	0	0	0	0	0	0	6	7	0	0
6	0	0	0	0	0	0	5	12	0	0
7	0	0	0	0	0	0	4	16	0	0
8	0	0	0	0	0	0	4	20	0	0
9	0	0	0	0	0	0	2	22	0	0
10	0	0	0	0	0	0	1	23	0	0
11	0	0	0	0	0	0	2	25	0	0
12	0	0	0	0	0	0	2	27	0	0
13	0	0	1	1	0	0	2	29	0	0
14	0	0	0	1	0	0	7	36	0	0
15	0	0	1	2	0	0	0	36	4	4
16	0	0	0	2	0	0	1	37	9	13
17	0	0	3	5	0	0	0	37	5	18
18	0	0	3	8	5	5	3	40	7	25
19	0	0	7	15	10	15	16	56	21	46
20	0	0	8	23	12	27	14	70	55	101
21	0	0	14	37	11	38	31	101	71	172
22	0	0	3	40	20	58	50	151	132	304
23	0	0	5	45	20	78	32	183	140	444
24	0	0	30	75	80	158	33	216	76	520
25	0	0	53	128	80	238	35	251	5	525
26	0	0	11	139	59	297	13	264	29	554
27	3	3	3	142	14	311	7	271	27	581
28	17	20	4	146	42	353	10	281	68	649
29	30	50	13	159	139	492	5	286	163	812
30	31	81	80	239	261	753	21	307	197	1009
31	40	121	126	365	148	901	93	400	185	1194
SEPT 1	148	269	213	578	188	1089	93	493	196	1390
2	142	411	215	793	192	1281	50	543	204	1594
3	314	725	197	990	30	1311	49	592	90	1684
4	248	973	226	1216	62	1373	14	606	85	1769

Appendix 1. Cont.

DAILY COHO COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	103	1076	266	1482	116	1489	29	635	84	1853
6	55	1131	271	1753	127	1616	50	685	27	1880
7	41	1172	69	1822	60	1676	45	730		1880
8	149	1321	18	1840	16	1692		730		1880
9	172	1493	48	1888	97	1789		730		1880
10	117	1610	9	1897	50	1839		730		1880
11		1610	2	1899	187	2026		730		1880
12		1610	1	1900	195	2221		730		1880
13		1610	15	1915		2221		730		1880
14		1610	6	1921		2221		730		1880
15		1610	15	1936		2221		730		1880
16		1610		1936		2221		730		1880
17		1610		1936		2221		730		1880
18		1610		1936		2221		730		1880
19		1610		1936		2221		730		1880
20		1610		1936		2221		730		1880
21		1610		1936		2221		730		1880
22		1610		1936		2221		730		1880
23		1610		1936		2221		730		1880
24		1610		1936		2221		730		1880
25		1610		1936		2221		730		1880
26		1610		1936		2221		730		1880
27		1610		1936		2221		730		1880
28		1610		1936		2221		730		1880
29		1610		1936		2221		730		1880
30		1610		1936		2221		730		1880
OCT. 1		1610		1936		2221		730		1880
2		1610		1936		2221		730		1880
3		1610		1936		2221		730		1880
4		1610		1936		2221		730		1880
TOTALS		1610		1936		2221		730		1880

DAILY COHO COUNTS			
DATE	1985		1986
	DAILY	CUM	DAILY CUM
JUNE 29			
30			
JULY 1			
2			
3			
4	0	0	
5	0	0	
6	0	0	
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
30	0	0	0
31	0	0	0
AUG. 1	0	0	0

Appendix 1. Cont.

DAILY COHO COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
AUG. 2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	1	1	6	6
14	4	5	7	13
15	7	12	3	16
16	2	14	7	23
17	64	78	21	44
18	46	124	2	46
19	83	207	21	67
20	55	262	47	114
21	110	372	102	216
22	175	547	109	325
23	123	670	206	531
24	216	886	222	753
25	103	989	114	867
26	149	1138	190	1057
27	335	1473	275	1332
28	336	1809	228	1560
29	440	2249	79	1639
30	408	2657	139	1778
31	486	3143	72	1850
SEPT 1	240	3383	129	1979
2	163	3546	126	2105
3	61	3607	58	2163
4	97	3704	62	2225

DAILY COHO COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
SEPT 5	117	3821	85	2310
6	47	3868	84	2394
7	60	3928	111	2505
8	46	3974	136	2641
9	62	4036	152	2793
10	63	4099	133	2926
11	36	4135	72	2998
12	28	4163	40	3038
13	55	4218	67	3105
14	42	4260	66	3171
15	51	4311	69	3240
16	57	4368	49	3289
17	8	4376	46	3335
18	4	4380	46	3381
19	6	4386	2	3383
20	6	4392	8	3391
21	4	4396	20	3411
22	7	4403	16	3427
23	14	4417	67	3494
24	1	4418	50	3544
25	0	4418	21	3565
26	0	4418		3565
27	0	4418		3565
28	0	4418		3565
29	1	4419		3565
30	0	4419		3565
OCT. 1	0	4419		3565
2	0	4419		3565
3	0	4419		3565
4	0	4419		3565
TOTALS		4419		3565

Appendix 1. Cont.

DAILY PINK COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	7	7	0	0
29	0	0	0	0	0	0	12	19	0	0
30	0	0	0	0	0	0	11	30	0	0
31	0	0	0	0	0	0	8	38	0	0
SEPT 1	0	0	0	0	0	0	7	45	0	0
2	0	0	0	0	0	0	5	50	0	0
3	0	0	0	0	0	0	7	57	0	0
4	0	0	0	0	0	0	4	61	0	0
							10	71	0	0

Appendix 1. Cont.

DAILY PINK COUNTS

DATE	1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	0	0	0	0	0	0	10	81	0	0
6	0	0	0	0	0	0	4	85	0	0
7	0	0	0	0	0	0	0	85	0	0
8		0	0	0	0	0	1	86		0
9		0	0	0	0	0	0	86		0
10		0	0	0	0	0		86		0
11		0	0	0	0	0		86		0
12		0	0	0	0	0		86		0
13		0	0	0	0	0		86		0
14		0	0	0	0	0		86		0
15		0	0	0	0	0		86		0
16		0	0	0	0	0		86		0
17		0	0	0	0	0		86		0
18		0	0	0	0	0		86		0
19		0	0	0	0	0		86		0
TOTALS		0		0		0		86		0

Appendix 1. Cont.

DAILY PINK COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
AUG. 2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0
29	1	1	0	0	0	0	0	0	0	0
30	9	10	0	0	0	0	0	0	0	0
31	10	20	0	0	0	0	0	0	0	0
SEPT 1	6	26	0	0	0	0	0	0	0	0
2	13	39	0	0	0	0	0	0	0	0
3	4	43	0	0	0	0	0	0	0	0
4	0	43	0	0	0	0	0	0	0	0

Appendix 1. Cont.

DAILY PINK COUNTS

DATE	1975		1976		1977		1978		1979	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5		43	0	0	0	0	0	0	0	0
6		43	0	0	0	0	0	0	0	0
7		43	0	0	0	0	0	0	0	0
8		43	0	0	0	0	0	0	0	0
9		43	0	0	0	0	0	0	0	0
10		43	0	0	0	0	0	0	0	0
11		43	0	0	0	0	0	0	0	0
12		43	0	0	0	0	0	0	0	0
13		43	0	0	0	0	0	0	0	0
14		43	0	0	0	0	0	0	0	0
15		43	0	0	0	0	0	0	0	0
16		43	0	0	0	0	0	0	0	0
17		43	0	0	0	0	0	0	0	0
18		43	0	0	0	0	0	0	0	0
19		43	0	0	0	0	0	0	0	0
TOTALS		43		0		0		0		0

Appendix 1. Cont.

DAILY PINK COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29	0	0			0	0				
30	0	0			0	0				
JULY 1	0	0			0	0				
2	0	0			0	0				
3	0	0			0	0				
4	0	0			0	0				
5	0	0			0	0				
6	0	0			0	0				
7	0	0			0	0				
8	0	0			0	0				
9	0	0			0	0				
10	0	0			0	0				
11	0	0			0	0				
12	0	0			0	0				
13	0	0			0	0				
14	0	0			0	0				
15	0	0			0	0				
16	0	0			0	0				
17	0	0			0	0				
18	0	0			0	0				
19	0	0			0	0				
20	0	0			0	0				
21	0	0			0	0				
22	0	0			0	0				
23	0	0			0	0				
24	0	0			0	0				
25	0	0			0	0				
26	0	0			0	0				
27	0	0			0	0				
28	0	0			0	0				
29	0	0			0	0				
30	0	0			0	0				
31	0	0			0	0				
AUG. 1	0	0			0	0				

Appendix 1. Cont.

DAILY PINK COUNTS

DATE	1980		1981		1982		1983		1984	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
SEPT 5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
OCT. 1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
TOTALS		0		0		0		0		0

Appendix 1. Cont.

DAILY PINK COUNTS			
DATE	1985		1986
	DAILY	CUM	DAILY CUM
JUNE 29			
JUNE 30			
JULY 1			
JULY 2			
JULY 3			
JULY 4	0	0	
JULY 5	0	0	
JULY 6	0	0	
JULY 7	0	0	
JULY 8	0	0	0
JULY 9	0	0	0
JULY 10	0	0	0
JULY 11	0	0	0
JULY 12	0	0	0
JULY 13	0	0	0
JULY 14	0	0	0
JULY 15	0	0	0
JULY 16	0	0	0
JULY 17	0	0	0
JULY 18	0	0	0
JULY 19	0	0	0
JULY 20	0	0	0
JULY 21	0	0	0
JULY 22	0	0	0
JULY 23	0	0	0
JULY 24	0	0	0
JULY 25	0	0	0
JULY 26	0	0	0
JULY 27	0	0	0
JULY 28	0	0	0
JULY 29	0	0	0
JULY 30	0	0	0
JULY 31	0	0	0
AUG. 1	0	0	0

Appendix 1. Cont.

DAILY PINK COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
AUG. 2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	4	4
22	0	0	0	4
23	0	0	1	5
24	0	0	7	12
25	0	0	7	19
26	0	0	12	31
27	0	0	24	55
28	0	0	25	80
29	0	0	17	97
30	13	13	37	134
31	33	46	25	159
SEPT 1	23	69	20	179
2	22	91	16	195
3	19	110	5	200
4	20	130	3	203

Appendix 1. Cont.

DAILY PINK COUNTS

DATE	1985		1986	
	DAILY	CUM	DAILY	CUM
SEPT 5	20	150	1	204
6	7	157	3	207
7	10	167	2	209
8	8	175	11	220
9	7	182	9	229
10	6	188	8	237
11	5	193	5	242
12	6	199	7	249
13	6	205	32	281
14	9	214	106	387
15	10	224	139	526
16	9	233	94	620
17	14	247	70	690
18	5	252	30	720
19	1	253	13	733
20	2	255	4	737
21	2	257	2	739
22	0	257	2	741
23	0	257	3	744
24	1	258	1	745
25	1	259	0	745
26	1	260		745
27	3	263		745
28	0	263		745
29	1	264		745
30	0	264		745
OCT. 1	0	264		745
2	0	264		745
3	0	264		745
4	0	264		745
TOTALS		264		745

APPENDIX 2. Historical escapement to tributaries of the Nass River

Meziadin River and Lake

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK
1950					
1951					
1952					
1953					
1954					
1955					
1956					5000
1957	180000				2000
1958	82000				
1959	32000				
1960					
1961					
1962					
1963					
1964	113000				
1965	98000				
1966	64684				400
1967	41278				750
1968	71730				750
1969	135328	7500			1500
1970	77078	8500			1500
1971	191674	3500			1000
1972	129525				600
1973	234627	2000	86		1400
1974	165259	800			600
1975	54095	2000	43		350
1976	102430	2000			1500
1977	242351	3000			1100
1978	111018	2000			250
1979	200000	1500			800
1980	142000	2600			2000
1981	214193	2500			500
1982	250000	2500			500
1983	170000	1500			550
1984	140000	2000			700
1985	290000	4419	264		599
1986	115543	5000	745		900

APPENDIX 2. Continued

Bowser River and Lake

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK
1950					
1951					
1952					
1953					
1954					
1955					
1956					
1957					
1958					
1959					
1960					
1961					
1962					
1963					
1964	18000	UNK			UNK
1965	22000	UNK			UNK
1966	23000	UNK			UNK
1967	23500	UNK			UNK
1968	6100	UNK			UNK
1969	21000	UNK			UNK
1970	13675	UNK			UNK
1971	23000	UNK			UNK
1972	29341	UNK			UNK
1973	42045	UNK			UNK
1974	22244	UNK			UNK
1975	10779	UNK			UNK
1976	21875	UNK			UNK
1977	120645	UNK			UNK
1978	23090	UNK			UNK
1979	8100	UNK			UNK
1980	6235	UNK			UNK
1981	30000	UNK			UNK
1982	30000	UNK			UNK
1983	10000	UNK			UNK
1984	29000	UNK			UNK
1985	36040	UNK			UNK
1986	35673	UNK			UNK

APPENDIX 2. Continued

Damdochax River and Lake

YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK
1950					
1951					
1952					
1953					
1954					
1955					
1956	5000				
1957	20000				7500
1958					7500
1959					
1960					
1961					
1962					
1963					
1964	7500				
1965	3500				
1966	3500				
1967	3000				
1968	5000				
1969	15000				7500
1970	12000				3500
1971	15000				7500
1972	12000				8000
1973	3500				350
1974	2500				
1975	2800				
1976	10000				
1977	8000	500			800
1978	3500	500			400
1979	700	700			400
1980	2000	800			1200
1981	500	1000			1000
1982	5000	750			600
1983	500				950
1984	1000				1200
1985	15000				1000
1986	10000				4000

APPENDIX 2. Continued

Fred-Wright Lake					
YEAR	SOCKEYE	COHO	PINK	CHUM	CHINOOK
1950					
1951					
1952					
1953					
1954					
1955					
1956					
1957	60000				15000
1958					
1959					
1960					
1961					
1962					
1963					
1964	15000				
1965	3500				
1966	7500				
1967	7500				
1968	7500				400
1969	7500				7500
1970	7500				750
1971	15000	400			400
1972	5000				200
1973	3500				100
1974	3200	300			100
1975	3000				
1976	7000	400			250
1977	20000	500			200
1978	7000	2500			1200
1979	1500	300			800
1980	800	300			1200
1981	7000	1000			1000
1982	20000	500			750
1983	2000				500
1984	6000				500
1985	15000				
1986	25000	5000			2500

APPENDIX 3. Annual age composition of Nass system sockeye streams

Meziadin River

YEAR	4-2	5-2	5-3	6-3	OTHER
1964	2.60	1.30	94.40	1.70	0.00
1965	56.60	0.50	40.30	2.00	1.00
1966	11.30	3.80	83.50	0.60	0.80
1967	45.50	0.70	36.90	15.70	1.10
1968	13.20	3.20	80.00	1.20	2.40
1969	40.10	1.50	53.00	4.20	1.20
1970	9.70	9.10	70.50	7.80	2.90
1971	13.00	0.50	85.00	1.00	0.00
1972	23.40	18.40	26.30	31.20	0.30
1973	27.40	5.60	54.90	10.70	0.10
1974	13.86	12.14	59.13	14.84	0.00
1975	15.60	4.59	65.82	13.99	0.00
1976	22.40	7.80	62.20	7.60	0.00
1977	22.15	5.32	67.01	3.90	1.62
1978	7.34	9.62	66.43	16.26	0.35
1979	11.12	2.93	79.34	4.52	2.09
1980	17.90	4.00	73.10	5.00	0.01
1981	43.30	1.00	53.60	2.10	0.00
1982	6.80	19.50	53.60	7.20	12.80
1983	24.70	6.50	48.60	7.80	12.30
1984	8.10	22.00	47.30	16.30	6.40
1985	28.60	8.10	37.80	16.00	9.50
1986	10.44	23.74	37.03	28.79	0.00

Bowser Lake

YEAR	4-2	5-2	5-3	6-3	OTHER
1964	4.40	33.20	59.10	3.30	0.00
1965	55.10	0.00	25.00	16.60	3.30
1966	46.70	12.10	37.20	0.40	3.60
1967	35.40	10.30	45.70	8.10	0.40
1968	23.40	23.90	44.70	1.50	1.50
1969	24.00	21.20	48.40	5.50	1.00
1970	15.00	24.50	39.60	20.90	0.00
1971	30.00	17.00	43.00	10.00	0.00
1972	14.40	26.00	32.20	26.70	0.07
1973	24.60	28.80	35.60	10.20	0.00
1974	7.00	29.60	38.00	25.40	0.80
1975	28.30	16.98	39.63	15.09	0.00
1976	19.50	20.70	50.00	9.80	0.00
1977	30.30	33.70	23.60	10.10	2.30
1978	16.18	57.35	17.65	8.82	0.00
1979	38.70	18.30	36.60	6.40	0.00
1980	3.00	53.70	10.80	32.50	0.00
1981	30.60	2.70	59.30	7.70	0.00
1982	36.00	20.00	36.00	8.00	0.00
1983	39.60	39.60	17.00	3.80	0.00
1984	NOT AVAILABLE				
1985	29.30	32.30	25.00	11.60	0.00
1986	34.90	21.30	21.90	21.30	0.60

APPENDIX 3. Continued

Damdochax Lake

YEAR	4-2	5-2	5-3	6-3	OTHER
1964					
1965					
1966					
1967	27.50	50.70	7.70	12.70	1.40
1968	30.70	49.80	10.80	8.80	0.00
1969	69.10	26.40	1.50	3.00	0.00
1970	27.50	39.90	25.80	6.80	0.00
1971	17.00	79.00	4.00	0.00	0.00
1972	17.90	7.40	10.70	0.00	0.00
1973	48.10	34.60	13.50	3.80	0.00
1974	14.60	69.10	9.10	7.30	0.00
1975	39.29	21.43	26.19	13.09	0.00
1976	45.20	21.90	29.00	3.90	0.00
1977	25.00	56.82	12.50	5.68	0.00
1978	29.33	48.00	12.00	9.33	1.34
1979	32.69	57.69	5.77	3.85	0.00
1980	63.00	26.00	3.10	6.30	1.60
1981	28.40	46.30	19.30	6.00	0.00
1982	30.30	18.20	48.50	3.00	0.00
1983	17.50	56.70	6.20	19.60	0.00
1984	28.00	62.00	8.00	2.00	0.00
1985	54.00	34.00	5.00	7.00	0.00
1986	9.00	90.00	1.00	0.00	0.00

Fred-Wright Lake

YEAR	4-2	5-2	5-3	6-3	OTHER
1964					
1965					
1966					
1967	80.20	13.70	4.60	1.50	0.00
1968	30.00	50.50	16.30	3.20	0.00
1969	68.10	28.20	2.50	1.20	0.00
1970	68.20	27.30	3.00	1.50	0.00
1971	73.00	22.00	3.00	2.00	0.00
1972	31.30	52.10	8.30	8.30	0.00
1973	75.50	14.70	8.20	1.60	0.00
1974		NOT SAMPLED			
1975	57.73	21.65	17.53	3.09	0.00
1976	43.80	27.10	28.10	1.00	0.00
1977	17.08	58.29	11.56	13.07	0.00
1978	15.65	66.67	6.12	11.56	0.00
1979		NOT AVAILABLE			
1980		NOT AVAILABLE			
1981	95.90	2.00	2.10	0.00	0.00
1982	23.50	64.70	11.80	0.00	0.00
1983	54.30	45.10	0.60	0.00	0.00
1984	44.00	56.00	0.00	0.00	0.00
1985	99.00	1.00	0.00	0.00	0.00
1986	12.20	84.00	3.70	0.00	0.00

APPENDIX 4. Age composition by sex, by week for Meziadin sockeye from 1975 to 1986.

1975		4-2		5-2		5-3		6-3		OTHERS		TOTAL
WEEK	SEX	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	
7-1	M											0
	F											0
	TOTAL											0
7-2	M											0
	F											0
	TOTAL											0
7-3	M					1	50.0					1
	F					1	50.0					1
	TOTAL					2	100.0					2
7-4	M	8	15.7	5	9.8	36	70.6	2	3.9		0.0	51
	F	6	16.7	0	0.0	30	83.3	0	0.0		0.0	36
	TOTAL	14	16.1	5	5.7	66	75.9	2	2.3		0.0	87
7-5	M	16	30.8	3	5.8	30	57.7	3	5.8		0.0	52
	F	10	16.9	0	0.0	43	72.9	6	10.2		0.0	59
	TOTAL	26	23.4	3	2.7	73	65.8	9	8.1		0.0	111
8-1	M	1	7.7	2	15.4	8	61.5	2	15.4		0.0	13
	F	5	38.5	0	0.0	6	46.2	2	15.4		0.0	13
	TOTAL	6	23.1	2	7.7	14	53.8	4	15.4		0.0	26
8-2	M	2	10.5	1	5.3	9	47.4	5	26.3	2	10.5	19
	F	3	21.4	0	0.0	10	71.4	1	7.1	0	0.0	14
	TOTAL	5	15.2	1	3.0	19	57.6	6	18.2	2	6.1	33
8-3	M	2	4.1	4	8.2	32	65.3	10	20.4	1	2.0	49
	F	4	10.0	4	10.0	31	77.5	1	2.5	0	0.0	40
	TOTAL	6	6.7	8	9.0	63	70.8	11	12.4	1	1.1	89
8-4	M	3	10.0	0	0.0	13	43.3	14	46.7		0.0	30
	F	5	25.0	1	5.0	12	60.0	2	10.0		0.0	20
	TOTAL	8	16.0	1	2.0	25	50.0	16	32.0		0.0	50
9-1	M	0	0.0		0.0	7	77.8	2	22.2		0.0	9
	F	2	20.0		0.0	4	40.0	4	40.0		0.0	10
	TOTAL	2	10.5		0.0	11	57.9	6	31.6		0.0	19
TOTAL	M	32	14.3	15	6.7	136	60.7	38	17.0	3	1.3	224
TOTAL	F	35	18.1	5	2.6	137	71.0	16	8.3	0	0.0	193
	TOTAL	67	16.1	20	4.8	273	65.5	54	12.9	3	0.7	417

APPENDIX 4. Continued

1976												
WEEK	SEX	4-2		5-2		5-3		6-3		OTHERS		TOTAL
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	
7-1	M											0
	F											0
	TOTAL											0
7-2	M											0
	F											0
	TOTAL											0
7-3	M											0
	F											0
	TOTAL											0
7-4	M											0
	F											0
	TOTAL											0
7-5	M	1	10.0	2	20.0	6	60.0	1	10.0		0.0	10
	F	1	9.1	0	0.0	8	72.7	2	18.2		0.0	11
	TOTAL	2	9.5	2	9.5	14	66.7	3	14.3		0.0	21
8-1	M	7	25.0	2	7.1	16	57.1	3	10.7		0.0	28
	F	7	17.9	5	12.8	25	64.1	2	5.1		0.0	39
	TOTAL	14	20.9	7	10.4	41	61.2	5	7.5		0.0	67
8-2	M	4	28.6	2	14.3	7	50.0	1	7.1		0.0	14
	F	4	14.8	0	0.0	23	85.2	0	0.0		0.0	27
	TOTAL	8	19.5	2	4.9	30	73.2	1	2.4		0.0	41
8-3	M	8	18.6	3	7.0	20	69.8	2	4.7		0.0	43
	F	18	23.4	3	3.9	48	62.3	8	10.4		0.0	77
	TOTAL	26	21.7	6	5.0	78	65.0	10	8.3		0.0	120
8-4	M	23	26.4	4	4.6	52	59.8	5	5.7	3	3.4	87
	F	21	20.4	9	8.7	68	66.0	5	4.9	0	0.0	103
	TOTAL	44	23.2	13	6.8	120	63.2	10	5.3	3	1.6	190
9-1	M	3	15.8	2	10.5	11	57.9	3	15.8		0.0	19
	F	7	30.4	6	26.1	8	34.8	2	8.7		0.0	23
	TOTAL	10	23.8	8	19.0	19	45.2	5	11.9		0.0	42
TOTAL	M	46	22.9	15	7.5	122	60.7	15	7.5	3	1.5	201
TOTAL	F	58	20.7	23	8.2	180	64.3	19	6.8	0	0.0	280
	TOTAL	104	21.6	38	7.9	302	62.8	34	7.1	3	0.6	481

APPENDIX 4. Continued

1977

WEEK	SEX	4-2		5-2		5-3		6-3		OTHERS		TOTAL
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	
7-1	M	2	50.0	0	0.0	1	25.0	1	25.0		0.0	4
	F	1	50.0	1	50.0	0	0.0	0	0.0		0.0	2
	TOTAL	3	50.0	1	16.7	1	16.7	1	16.7		0.0	6
7-2	M	18	32.7	7	12.7	24	43.6	6	10.9		0.0	55
	F	20	39.2	7	13.7	24	47.1	0	0.0		0.0	51
	TOTAL	38	35.8	14	13.2	48	45.3	6	5.7		0.0	106
7-3	M	15	26.8	5	8.9	33	58.9	2	3.6	1	1.8	56
	F	20	30.8	3	4.6	39	60.0	2	3.1	1	1.5	65
	TOTAL	35	28.9	8	6.6	72	59.5	4	3.3	2	1.7	121
7-4	M	28	35.9	4	5.1	41	52.6	3	3.8	2	2.6	78
	F	15	23.4	10	15.6	39	60.9	0	0.0	0	0.0	64
	TOTAL	43	30.3	14	9.9	80	56.3	3	2.1	2	1.4	142
7-5	M	19	24.4	6	7.7	44	56.4	5	6.4	4	5.1	78
	F	17	32.7	0	0.0	34	65.4	1	1.9	0	0.0	52
	TOTAL	36	27.7	6	4.6	78	60.0	6	4.6	4	3.1	130
8-1	M	14	26.4	2	3.8	33	62.3	2	3.8	2	3.8	53
	F	10	30.3	0	0.0	23	69.7	0	0.0	0	0.0	33
	TOTAL	24	27.9	2	2.3	56	65.1	2	2.3	2	2.3	86
8-2	M	7	13.5	5	9.6	36	69.2	2	3.8	2	3.8	52
	F	6	27.3	1	4.5	15	68.2	0	0.0	0	0.0	22
	TOTAL	13	17.6	6	8.1	51	68.9	2	2.7	2	2.7	74
8-3	M	10	16.7		0.0	42	70.0	6	10.0	2	3.3	60
	F	8	12.5		0.0	56	87.5	0	0.0	0	0.0	64
	TOTAL	18	14.5		0.0	98	79.0	6	4.8	2	1.6	124
8-4	M	3	4.3	4	5.8	56	81.2	4	5.8	2	2.9	69
	F	1	1.8	0	0.0	53	94.6	2	3.6	0	0.0	56
	TOTAL	4	3.2	4	3.2	109	87.2	6	4.8	2	1.6	125
9-1	M	8	13.3		0.0	46	76.7	3	5.0	3	5.0	60
	F	7	10.6		0.0	57	86.4	2	3.0	0	0.0	66
	TOTAL	15	11.9		0.0	103	81.7	5	4.0	3	2.4	126
TOTAL	M	124	21.9	33	5.8	356	63.0	34	6.0	18	3.2	565
TOTAL	F	105	22.1	22	4.6	340	71.6	7	1.5	1	0.2	475
	TOTAL	229	22.0	55	5.3	696	66.9	41	3.9	19	1.8	1040

APPENDIX 4. Continued

1978																	
WEEK	SEX	NO.	4-2	%	NO.	5-2	%	NO.	5-3	%	NO.	6-3	%	OTHERS	NO.	%	TOTAL
7-1	M	0	0.0		5	16.1		19	61.3		7	22.6		0.0			31
	F	6	9.8		9	14.8		36	59.0		10	16.4		0.0			61
	TOTAL	6	6.5		14	15.2		55	59.8		17	18.5		0.0			92
7-2	M	3	11.5		3	11.5		15	57.7		5	19.2		0	0.0		26
	F	4	8.5		2	4.3		29	61.7		11	23.4		1	2.1		47
	TOTAL	7	9.6		5	6.8		44	60.3		16	21.9		1	1.4		73
7-3	M	3	7.0		6	14.0		32	74.4		2	4.7		0	0.0		43
	F	4	6.7		5	8.3		47	78.3		3	5.0		1	1.7		60
	TOTAL	7	6.8		11	10.7		79	76.7		5	4.9		1	1.0		103
7-4	M	2	7.7		3	11.5		20	76.9		1	3.8		0.0			26
	F	2	7.1		2	7.1		22	78.6		2	7.1		0.0			28
	TOTAL	4	7.4		5	9.3		42	77.8		3	5.6		0.0			54
7-5	M	1	4.5		4	18.2		13	59.1		4	18.2		0.0			22
	F	3	15.0		0	0.0		16	80.0		1	5.0		0.0			20
	TOTAL	4	9.5		4	9.5		29	69.0		5	11.9		0.0			42
8-1	M	3	12.5		4	16.7		11	45.8		6	25.0		0.0			24
	F	2	10.5		0	0.0		15	78.9		2	10.5		0.0			19
	TOTAL	5	11.6		4	9.3		26	60.5		8	18.6		0.0			43
8-2	M	2	6.5		6	19.4		15	48.4		8	25.8		0.0			31
	F	0	0.0		2	9.5		14	66.7		5	23.8		0.0			21
	TOTAL	2	3.8		8	15.4		29	55.8		13	25.0		0.0			52
8-3	M	0	0.0		2	8.0		16	64.0		7	28.0		0.0			25
	F	1	3.6		1	3.6		19	67.9		7	25.0		0.0			28
	TOTAL	1	1.9		3	5.7		35	66.0		14	26.4		0.0			53
8-4	M	2	10.5		1	5.3		9	47.4		7	36.8		0.0			19
	F	1	4.5		0	0.0		17	77.3		4	18.2		0.0			22
	TOTAL	3	7.3		1	2.4		26	63.4		11	26.8		0.0			41
9-1	M	0	0.0		0.0			2	100.0		0.0			0.0			2
	F	1	14.3		0.0			6	85.7		0.0			0.0			7
	TOTAL	1	11.1		0.0			8	88.9		0.0			0.0			9
TOTAL	M	16	6.4		34	13.7		152	61.0		47	18.9		0	0.0		249
TOTAL	F	24	7.7		21	6.7		221	70.6		45	14.4		2	0.6		313
	TOTAL	40	7.1		55	9.8		373	66.4		92	16.4		2	0.4		562

APPENDIX 4. Continued

1979

WEEK	SEX	NO.	4-2 %	NO.	5-2 %	NO.	5-3 %	NO.	6-3 %	OTHERS NO.	%	TOTAL
7-1	M		0.0	1	25.0	2	50.0	1	25.0		0.0	4
	F		0.0	0	0.0	1	100.0	0	0.0		0.0	1
	TOTAL		0.0	1	20.0	3	60.0	1	20.0		0.0	5
7-2	M	0	0.0	2	25.0	6	75.0	0	0.0		0.0	8
	F	4	40.0	0	0.0	5	50.0	1	10.0		0.0	10
	TOTAL	4	22.2	2	11.1	11	61.1	1	5.6		0.0	18
7-3	M	5	15.2	5	15.2	17	51.5	6	18.2	0	0.0	33
	F	11	21.2	2	3.8	32	61.5	6	11.5	1	1.9	52
	TOTAL	16	18.8	7	8.2	49	57.6	12	14.1	1	1.2	85
7-4	M	12	23.5	4	7.8	30	58.8	3	5.9	2	3.9	51
	F	13	19.7	2	3.0	47	71.2	4	6.1	0	0.0	66
	TOTAL	25	21.4	6	5.1	77	65.8	7	6.0	2	1.7	117
7-5	M	3	5.5	1	1.8	42	76.4	4	7.3	5	9.1	55
	F	3	5.7	0	0.0	48	90.6	2	3.8	0	0.0	53
	TOTAL	6	5.6	1	0.9	90	83.3	6	5.6	5	4.6	108
8-1	M	9	11.8	3	3.9	59	77.6	2	2.6	3	3.9	76
	F	11	17.2	1	1.6	50	78.1	2	3.1	0	0.0	64
	TOTAL	20	14.3	4	2.9	109	77.9	4	2.9	3	2.1	140
8-2	M	5	8.1	0	0.0	54	87.1		0.0	3	4.8	62
	F	4	7.4	2	3.7	48	88.9		0.0	0	0.0	54
	TOTAL	9	7.8	2	1.7	102	87.9		0.0	3	2.6	116
8-3	M	1	1.7	0	0.0	51	87.9	1	1.7	5	8.6	58
	F	3	4.7	2	3.1	57	89.1	2	3.1	0	0.0	64
	TOTAL	4	3.3	2	1.6	108	88.5	3	2.5	5	4.1	122
8-4	M	4	10.8		0.0	29	78.4	3	8.1	1	2.7	37
	F	3	5.2		0.0	55	94.8	0	0.0	0	0.0	58
	TOTAL	7	7.4		0.0	84	88.4	3	3.2	1	1.1	95
9-1	M		0.0		0.0	5	100.0		0.0		0.0	5
	F		0.0		0.0	6	100.0		0.0		0.0	6
	TOTAL		0.0		0.0	11	100.0		0.0		0.0	11
TOTAL	M	39	10.0	16	4.1	295	75.8	20	5.1	19	4.9	389
TOTAL	F	52	12.1	9	2.1	349	81.5	17	4.0	1	0.2	428
	TOTAL	91	11.1	25	3.1	644	78.8	37	4.5	20	2.4	817

APPENDIX 4. Continued

1980																	
WEEK	SEX	NO.	4-2	%	NO.	5-2	%	NO.	5-3	%	NO.	6-3	%	OTHERS	NO.	%	TOTAL
7-1	M			0.0	1		25.0	2		50.0	1		25.0			0.0	4
	F			0.0	0		0.0	5		100.0	0		0.0			0.0	5
	TOTAL			0.0	1		11.1	7		77.8	1		11.1			0.0	9
7-2	M	7		13.5	9		17.3	25		48.1	11		21.2			0.0	52
	F	6		14.0	5		11.6	29		67.4	3		7.0			0.0	43
	TOTAL	13		13.7	14		14.7	54		56.8	14		14.7			0.0	95
7-3	M	17		13.9	6		4.9	92		75.4	7		5.7			0.0	122
	F	25		24.0	6		5.8	69		66.3	4		3.8			0.0	104
	TOTAL	42		18.6	12		5.3	161		71.2	11		4.9			0.0	226
7-4	M	8		17.0	1		2.1	37		78.7	1		2.1			0.0	47
	F	8		19.0	2		4.8	31		73.8	1		2.4			0.0	42
	TOTAL	16		18.0	3		3.4	68		76.4	2		2.2			0.0	89
7-5	M	2		10.0			0.0	17		85.0	1		5.0			0.0	20
	F	4		26.7			0.0	11		73.3	0		0.0			0.0	15
	TOTAL	6		17.1			0.0	28		80.0	1		2.9			0.0	35
8-1	M	6		14.6	3		7.3	29		70.7	3		7.3			0.0	41
	F	12		29.3	1		2.4	27		65.9	1		2.4			0.0	41
	TOTAL	18		22.0	4		4.9	56		68.3	4		4.9			0.0	82
8-2	M	10		32.3	0		0.0	19		61.3	2		6.5			0.0	31
	F	5		17.9	1		3.6	22		78.6	0		0.0			0.0	28
	TOTAL	15		25.4	1		1.7	41		69.5	2		3.4			0.0	59
8-3	M	17		22.4	2		2.6	55		72.4	2		2.6			0.0	76
	F	5		10.2	4		8.2	39		79.6	1		2.0			0.0	49
	TOTAL	22		17.6	6		4.8	94		75.2	3		2.4			0.0	125
8-4	M	30		18.9	3		1.9	119		74.8	7		4.4	0		0.0	159
	F	23		18.5	1		0.8	97		78.2	2		1.6	1		0.8	124
	TOTAL	53		18.7	4		1.4	216		76.3	9		3.2	1		0.4	283
9-1	M	7		17.5	2		5.0	26		65.0	5		12.5			0.0	40
	F	1		2.9	1		2.9	31		88.6	2		5.7			0.0	35
	TOTAL	8		10.7	3		4.0	57		76.0	7		9.3			0.0	75
TOTAL	M	104		17.6	27		4.6	421		71.1	40		6.8	0		0.0	592
TOTAL	F	89		18.3	21		4.3	361		74.3	14		2.9	1		0.2	486
	TOTAL	193		17.9	48		4.5	782		72.5	54		5.0	1		0.1	1078

APPENDIX 4. Continued

1981											
WEEK	SEX	NO.	4-2 %	NO.	5-2 %	NO.	5-3 %	NO.	6-3 %	OTHERS NO.	TOTAL
7-1	M										0
	F										0
	TOTAL										0
7-2	M	25	86.2	1	3.4	1	3.4	2	6.9	0.0	29
	F	31	75.6	2	4.9	8	19.5	0	0.0	0.0	41
	TOTAL	56	80.0	3	4.3	9	12.9	2	2.9	0.0	70
7-3	M	16	72.7	2	9.1	3	13.6	1	4.5	0.0	22
	F	29	80.6	0	.0	7	19.4	0	0.0	0.0	36
	TOTAL	45	77.6	2	3.4	10	17.2	1	1.7	0.0	58
7-4	M	29	72.5		0.0	11	27.5		0.0	0.0	40
	F	55	85.9		0.0	9	14.1		0.0	0.0	64
	TOTAL	84	80.8		0.0	20	19.2		0.0	0.0	104
7-5	M	32	61.5		0.0	20	38.5	0	0.0	0.0	52
	F	77	83.7		0.0	14	15.2	1	1.1	0.0	92
	TOTAL	109	75.7		0.0	34	23.6	1	0.7	0.0	144
8-1	M	23	39.7	0	0.0	34	58.6	1	1.7	0.0	58
	F	26	57.8	1	2.2	18	40.0	0	0.0	0.0	45
	TOTAL	49	47.6	1	1.0	52	50.5	1	1.0	0.0	103
8-2	M	11	12.9		0.0	73	85.9	1	1.2	0.0	85
	F	7	14.0		0.0	41	82.0	2	4.0	0.0	50
	TOTAL	18	13.3		0.0	114	84.4	3	2.2	0.0	135
8-3	M	8	12.9		0.0	53	85.5	1	1.6	0.0	62
	F	10	14.5		0.0	57	82.6	2	2.9	0.0	69
	TOTAL	18	13.7		0.0	110	84.0	3	2.3	0.0	131
8-4	M	6	14.3	2	4.8	32	76.2	2	4.8	0.0	42
	F	6	10.9	0	0.0	47	85.5	2	3.6	0.0	55
	TOTAL	12	12.4	2	2.1	79	81.4	4	4.1	0.0	97
9-1	M	5	16.7	0	0.0	22	73.3	3	10.0	0.0	30
	F	3	5.8	1	1.9	45	86.5	3	5.8	0.0	52
	TOTAL	8	9.8	1	1.2	67	81.7	6	7.3	0.0	82
TOTAL	M	155	36.9	5	1.2	249	59.3	11	2.6	0	420
TOTAL	F	244	48.4	4	0.8	246	48.8	10	2.0	0	504
	TOTAL	399	43.2	9	1.0	495	53.6	21	2.3	0	924

APPENDIX 4. Continued

1982		4-2		5-2		5-3		6-3		OTHERS		TOTAL
WEEK	SEX	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	
7-1	M											0
	F											0
	TOTAL											0
7-2	M		0.0	0	0.0	1	100.0		0.0		0.0	1
	F		0.0	2	66.7	1	33.3		0.0		0.0	3
	TOTAL		0.0	2	50.0	2	50.0		0.0		0.0	4
7-3	M	10	11.2	46	51.7	32	36.0	1	1.1		0.0	89
	F	9	16.4	25	45.5	21	38.2	0	0.0		0.0	55
	TOTAL	19	13.2	71	49.3	53	36.8	1	0.7		0.0	144
7-4	M	11	10.7	58	56.3	33	32.0	1	1.0		0.0	103
	F	3	6.5	20	43.5	23	50.0	0	0.0		0.0	46
	TOTAL	14	9.4	78	52.3	56	37.6	1	0.7		0.0	149
7-5	M	1	2.2	17	37.0	24	52.2	4	8.7		0.0	46
	F	13	21.7	12	20.0	35	58.3	0	0.0		0.0	60
	TOTAL	14	13.2	29	27.4	59	55.7	4	3.8		0.0	106
8-1	M	1	6.3	4	25.0	11	68.8	0	0.0		0.0	16
	F	6	19.4	9	29.0	15	48.4	1	3.2		0.0	31
	TOTAL	7	14.9	13	27.7	26	55.3	1	2.1		0.0	47
8-2	M	0	0.0	7	10.8	43	66.2	15	23.1		0.0	65
	F	2	2.3	7	8.1	71	82.6	6	7.0		0.0	86
	TOTAL	2	1.3	14	9.3	114	75.5	21	13.9		0.0	151
8-3	M	1	1.0	2	2.0	77	75.5	22	21.6	0	0.0	102
	F	5	7.9	1	1.6	41	65.1	15	23.8	1	1.6	63
	TOTAL	6	3.6	3	1.8	118	71.5	37	22.4	1	0.6	165
8-4	M	2	2.9	3	4.3	55	78.6	10	14.3	0	0.0	70
	F	7	13.0	1	1.9	44	81.5	1	1.9	1	1.9	54
	TOTAL	9	7.3	4	3.2	99	79.8	11	8.9	1	0.8	124
9-1	M	2	5.6	1	2.8	30	83.3	3	8.3		0.0	36
	F	2	4.4	1	2.2	41	91.1	1	2.2		0.0	45
	TOTAL	4	4.9	2	2.5	71	87.7	4	4.9		0.0	81
TOTAL	M	28	5.3	138	26.1	306	58.0	56	10.6	0	0.0	528
TOTAL	F	47	10.6	78	17.6	292	65.9	24	5.4	2	0.5	443
	TOTAL	75	7.7	216	22.2	598	61.6	80	8.2	2	0.2	971

APPENDIX 4. Continued

1983

WEEK	SEX	NO.	4-2 %	NO.	5-2 %	NO.	5-3 %	NO.	6-3 %	OTHERS NO.	%	TOTAL
7-1	M											0
	F											0
	TOTAL											0
7-2	M		0.0		0.0	2	66.7	1	33.3		0.0	3
	F		0.0		0.0	2	100.0	0	0.0		0.0	2
	TOTAL		0.0		0.0	4	80.0	1	20.0		0.0	5
7-3	M	11	14.1	16	20.5	30	38.5	21	26.9		0.0	78
	F	23	31.9	11	15.3	33	45.8	5	6.9		0.0	72
	TOTAL	34	22.7	27	18.0	63	42.0	26	17.3		0.0	150
7-4	M	25	26.0	11	11.5	43	44.8	17	17.7		0.0	96
	F	23	35.9	3	4.7	34	53.1	4	6.3		0.0	64
	TOTAL	48	30.0	14	8.8	77	48.1	21	13.1		0.0	160
7-5	M	18	30.0	3	5.0	32	53.3	7	11.7		0.0	60
	F	18	36.0	2	4.0	28	56.0	2	4.0		0.0	50
	TOTAL	36	32.7	5	4.5	60	54.5	9	8.2		0.0	110
8-1	M	27	34.6	4	5.1	41	52.6	5	6.4	1	1.3	78
	F	23	35.9	3	4.7	38	59.4	0	0.0	0	0.0	64
	TOTAL	50	35.2	7	4.9	79	55.6	5	3.5	1	0.7	142
8-2	M	14	21.9	1	1.6	42	65.6	5	7.8	2	3.1	64
	F	27	34.2	3	3.8	48	60.8	1	1.3	0	0.0	79
	TOTAL	41	28.7	4	2.8	90	62.9	6	4.2	2	1.4	143
8-3	M	7	13.0	2	3.7	39	72.2	6	11.1	0	0.0	54
	F	11	25.6	2	4.7	27	62.8	2	4.7	1	2.3	43
	TOTAL	18	18.6	4	4.1	66	68.0	8	8.2	1	1.0	97
8-4	M	9	18.0	2	4.0	33	66.0	4	8.0	2	4.0	50
	F	13	33.3	2	5.1	23	59.0	1	2.6	0	0.0	39
	TOTAL	22	24.7	4	4.5	56	62.9	5	5.6	2	2.2	89
9-1	M	9	31.0	1	3.4	17	58.6	1	3.4	1	3.4	29
	F	4	21.1	1	5.3	13	68.4	1	5.3	0	0.0	19
	TOTAL	13	27.1	2	4.2	30	62.5	2	4.2	1	2.1	48
TOTAL	M	120	23.4	40	7.8	279	54.5	67	13.1	6	1.2	512
TOTAL	F	142	32.9	27	6.3	246	56.9	16	3.7	1	0.2	432
	TOTAL	262	27.8	67	7.1	525	55.6	83	8.8	7	0.7	944

APPENDIX 4. Continued

1984											
WEEK	SEX	NO.	4-2 %	NO.	5-2 %	NO.	5-3 %	NO.	6-3 %	OTHERS NO.	TOTAL
7-1	M		0.0	7	53.8	3	23.1	3	23.1	0.0	13
	F		0.0	5	62.5	2	25.0	1	12.5	0.0	8
	TOTAL		0.0	12	57.1	5	23.8	4	19.0	0.0	21
7-2	M	2	2.2	46	51.7	17	19.1	24	27.0	0.0	89
	F	2	4.5	21	47.7	14	31.8	7	15.9	0.0	44
	TOTAL	4	3.0	67	50.4	31	23.3	31	23.3	0.0	133
7-3	M	6	6.6	43	47.3	17	18.7	25	27.5	0.0	91
	F	22	20.8	22	20.8	53	50.0	9	8.5	0.0	106
	TOTAL	28	14.2	65	33.0	70	35.5	34	17.3	0.0	197
7-4	M	5	6.4	20	25.6	36	46.2	17	21.8	0.0	78
	F	18	25.7	12	17.1	36	51.4	4	5.7	0.0	70
	TOTAL	23	15.5	32	21.6	72	48.6	21	14.2	0.0	148
7-5	M	6	10.2	10	16.9	30	50.8	13	22.0	0.0	59
	F	9	12.3	13	17.8	45	61.6	6	8.2	0.0	73
	TOTAL	15	11.4	23	17.4	75	56.8	19	14.4	0.0	132
8-1	M	3	4.1	18	24.3	36	48.6	17	23.0	0.0	74
	F	10	16.7	4	6.7	45	75.0	1	1.7	0.0	60
	TOTAL	13	9.7	22	16.4	81	60.4	18	13.4	0.0	134
8-2	M	6	7.9	16	21.1	32	42.1	21	27.6	1	76
	F	2	3.5	6	10.5	47	82.5	2	3.5	0	57
	TOTAL	8	6.0	22	16.5	79	59.4	23	17.3	1	133
8-3	M	1	1.4	9	12.3	38	52.1	24	32.9	1	73
	F	2	3.5	3	5.3	48	84.2	4	7.0	0	57
	TOTAL	3	2.3	12	9.2	86	66.2	28	21.5	1	130
8-4	M	0	0.0	2	6.7	20	66.7	8	26.7	0.0	30
	F	2	5.7	2	5.7	26	74.3	5	14.3	0.0	35
	TOTAL	2	3.1	4	6.2	46	70.8	13	20.0	0.0	65
9-1	M	0	0.0	3	21.4	8	57.1	3	21.4	0.0	14
	F	1	5.6	2	11.1	14	77.8	1	5.6	0.0	18
	TOTAL	1	3.1	5	15.6	22	68.8	4	12.5	0.0	32
TOTAL	M	29	4.9	174	29.1	237	39.7	155	26.0	2	597
TOTAL	F	68	12.9	90	17.0	330	62.5	40	7.6	0	528
	TOTAL	97	8.6	264	23.5	567	50.4	195	17.3	2	1125

APPENDIX 4 Continued

1985

WEEK	SEX	4-2		5-2		5-3		6-3		OTHERS		TOTAL
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	
7-1	M											0
	F											0
	TOTAL											0
7-2	M											0
	F											0
	TOTAL											0
7-3	M	7	36.8	4	21.1	4	21.1	4	21.1	0.0		19
	F	13	44.8	9	31.0	5	17.2	2	6.9	0.0		29
	TOTAL	20	41.7	13	27.1	9	18.8	6	12.5	0.0		48
7-4	M	44	40.4	20	18.3	32	29.4	13	11.9	0.0		109
	F	46	53.5	9	10.5	29	33.7	2	2.3	0.0		86
	TOTAL	90	46.2	29	14.9	61	31.3	15	7.7	0.0		195
7-5	M	38	43.2	12	13.6	21	23.9	17	19.3	0.0		88
	F	49	50.0	7	7.1	34	34.7	8	8.2	0.0		98
	TOTAL	87	46.8	19	10.2	55	29.6	25	13.4	0.0		186
8-1	M	21	18.9	7	6.3	38	34.2	45	40.5	0.0		111
	F	49	47.6	6	5.8	42	40.8	6	5.8	0.0		103
	TOTAL	70	32.7	13	6.1	80	37.4	51	23.8	0.0		214
8-2	M	17	14.5	11	9.4	48	41.0	41	35.0	0.0		117
	F	18	24.3	1	1.4	48	64.9	7	9.5	0.0		74
	TOTAL	35	18.3	12	6.3	96	50.3	48	25.1	0.0		191
8-3	M	8	10.1	2	2.5	40	50.6	29	36.7	0.0		79
	F	23	25.8	3	3.4	57	64.0	6	6.7	0.0		89
	TOTAL	31	18.5	5	3.0	97	57.7	35	20.8	0.0		168
8-4	M	4	9.8	2	4.9	26	63.4	9	22.0	0.0		41
	F	6	14.0	4	9.3	30	69.8	3	7.0	0.0		43
	TOTAL	10	11.9	6	7.1	56	66.7	12	14.3	0.0		84
TOTAL	M	139	24.6	58	10.3	209	37.1	158	28.0	0	0.0	564
TOTAL	F	204	39.1	39	7.5	245	46.9	34	6.5	0	0.0	522
	TOTAL	343	31.6	97	8.9	454	41.8	192	17.7	0	0.0	1086

APPENDIX 4. Continued

1986		4-2		5-2		5-3		6-3		OTHERS		TOTAL
WEEK	SEX	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	
7-1	M											0
	F											0
	TOTAL											0
7-2	M											0
	F											0
	TOTAL											0
7-3	M											0
	F											0
	TOTAL											0
7-4	M	3	8.8	19	55.9	11	32.4	1	2.9		0.0	34
	F	10	33.3	10	33.3	7	23.3	3	10.0		0.0	30
	TOTAL	13	20.3	29	45.3	18	28.1	4	6.3		0.0	64
7-5	M	9	9.9	40	44.0	30	33.0	12	13.2		0.0	91
	F	25	27.5	32	35.2	32	35.2	2	2.2		0.0	91
	TOTAL	34	18.7	72	39.6	62	34.1	14	7.7		0.0	182
8-1	M	8	8.0	28	28.0	42	42.0	22	22.0		0.0	100
	F	11	14.7	15	20.0	37	49.3	12	16.0		0.0	75
	TOTAL	19	10.9	43	24.6	79	45.1	34	19.4		0.0	175
8-2	M	6	6.9	14	16.1	25	28.7	42	48.3		0.0	87
	F	4	6.6	8	13.1	39	63.9	10	16.4		0.0	61
	TOTAL	10	6.8	22	14.9	64	43.2	52	35.1		0.0	148
8-3	M	5	5.1	13	13.1	21	21.2	60	60.6		0.0	99
	F	6	6.8	16	18.2	36	40.9	30	34.1		0.0	88
	TOTAL	11	5.9	29	15.5	57	30.5	90	48.1		0.0	187
8-4	M	3	3.7	11	13.4	22	26.8	46	56.1		0.0	82
	F	5	6.9	10	13.9	35	48.6	22	30.6		0.0	72
	TOTAL	8	5.2	21	13.6	57	37.0	68	44.2		0.0	154
TOTAL	M	34	6.9	125	25.4	151	30.6	183	37.1	0	0.0	493
TOTAL	F	61	14.6	91	21.8	186	44.6	79	18.9	0	0.0	417
	TOTAL	95	10.4	216	23.7	337	37.0	262	28.8	0	0.0	910

APPENDIX 5. Mean hypural length (mm) by sex, by age class, by week for Meziadin sockeye from 1975 to 1986.

1975										
WEEK	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1										
7-2										
7-3					505	492				
7-4	501	461	521		508	483	541			
7-5	493	467	537		505	482	518	488		
8-1	496	472	577		500	497	509	480		
8-2	508	494	549		513	502	598	551		
8-3	503	498	571	541	514	519	566	529		
8-4	520	498		543	530	513	571	501		
9-1		495			526	507	564	554		
1976										
WEEK	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1										
7-2										
7-3										
7-4										
7-5	478	485	537		505	482	518	488		
8-1	490	482	533	515	508	483	550	529		
8-2	499	479	563		511	493	579			
8-3	500	473	531	514	514	485	527	511		
8-4	499	485	521	510	523	495	574	522	368	
9-1	499	485	564	511	509	511	567	554		
1977										
WEEK	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1	548	480		530	525		570			
7-2	527	499	555	541	530	512	572			
7-3	519	506	571	542	531	512	520	538	365	540
7-4	517	491	564	558	524	517	568		390	
7-5	520	500	558		533	510	559	565	359	
8-1	536	514	573		539	512	598		460	
8-2	501	514	570	510	550	535	580		340	
8-3	545	503			552	531	586		358	
8-4	522	518	580		549	538	573	543	375	
9-1	488	488			551	534	525	550	368	
1978										
WEEK	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1		488	557	537	500	492	534	527		
7-2	525	493	569	539	531	505	548	542		481
7-3	528	491	575	535	526	510	553	526		433
7-4	484	505	574	501	524	513	562	516		
7-5	545	529	575		535	505	559	550		
8-1	507	514	548		542	510	563	501		
8-2	576		583	560	556	515	583	580		
8-3		536	555	585	556	525	602	577		
8-4	564	495	531		540	544	589	578		
9-1		445			530	536				

APPENDIX 5. Continued

1979

WEEK	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1			535		510	470	548			
7-2		485	541		521	493		541		
7-3	478	479	547	504	510	492	537	502		
7-4	489	483	551	540	518	496	565	500		
7-5	506	486	521		521	499	575	540	353	
8-1	494	512	542	541	537	519	596	542	396	
8-2	522	500		533	540	524			352	
8-3	525	510		562	541	530	610	583	438	
8-4	495	465			548	529	587		385	
9-1					549	531				

1980

WEEK	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1			534		536	492	525			
7-2	488	474	525	510	491	478	530	458		
7-3	499	481	507	491	506	492	513	492		
7-4	503	486	584	509	499	487	513	478		
7-5	415	488			490	477	588			
8-1	472	456	523	486	483	464	529	478		
8-2	492	479		517	485	468	558			
8-3	503	495	540	491	504	486	512	497		
8-4	494	472	553	506	512	488	543	499	468	
9-1	492	451	552	494	516	489	569	503		

1981

WEEK	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1										
7-2	468	465	534	503	478	462	496			
7-3	471	460	552		501	474	556			
7-4	486	466			490	472				
7-5	485	467			497	478		521		
8-1	490	456		524	507	492	542			
8-2	500	465			508	492	543			
8-3	502	494			511	492	500	523		
8-4	470	456	507		507	487	574	504		
9-1	397	417		500	512	487	549	509		

1982

WEEK	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1										
7-2				503	562	502				
7-3	500	476	546	520	508	483	570			
7-4	495	469	532	515	497	481	504			
7-5	466	461	538	519	499	480	483			
8-1	499	467	555	523	520	506		539		
8-2		471	566	553	538	503	566	536		
8-3	498	443	565	483	536	496	567	523	354	
8-4	453	460	565	420	518	494	537	540	361	
9-1	469	482	572	487	515	486	539	439		

APPENDIX 5. Continued

1983	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1										
7-2					496	454	482			
7-3	479	453	538	481	461	468	534	496		
7-4	477	456	522	506	493	470	535	517		
7-5	469	467	515	494	499	470	536	469		
8-1	481	471	513	498	504	485	562		469	
8-2	494	477	510	501	510	493	560	540	508	
8-3	502	466	548	538	517	488	553	539		344
8-4	510	486	553	486	528	484	563	546	497	
9-1	505	421	489	518	535	483	560	549	485	

1984	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1			521	503	464	480	534	455		
7-2	434	445	524	495	487	462	533	497		
7-3	483	462	527	509	496	471	528	506		
7-4	473	461	522	467	491	473	524	473		
7-5	487	451	536	495	494	473	537	479		
8-1	473	455	548	517	492	471	545	535		
8-2	458	465	542	494	509	488	550	501	340	
8-3	545	472	557	527	508	492	559	510	350	
8-4		455	550	498	521	492	541	540		
9-1		425	506	511	515	488	576	541		

1985	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1										
7-2										
7-3	470	449	513	487	481	440	525	500		
7-4	460	446	518	487	470	454	512	480		
7-5	460	434	532	515	472	453	534	507		
8-1	466	441	539	495	488	457	442	517		
8-2	472	457	552	480	492	474	556	546		
8-3	499	459	520	485	505	478	560	531		
8-4	451	442	523	494	496	479	534	503		

1986	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
7-1										
7-2										
7-3										
7-4	492	473	538	519	499	480	560	523		
7-5	474	469	535	515	501	468	546	495		
8-1	481	460	548	528	502	481	558	555		
8-2	470	475	545	541	504	487	570	552		
8-3	471	468	551	524	517	502	569	540		
8-4	463	468	573	532	524	493	570	546		

APPENDIX 6. Mean hypural length (mm) by sex, by age class, by year for Bowser, Damdochax and Fred-Wright sockeye from 1964 to 1986.

BOWSER LAKE SYSTEM SOCKEYE.

[illegible]

APPENDIX 6 cont.

DAMDOCHAX LAKE SYSTEM SOCKEYE.

YEAR	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
1964										
1965	455	449			472					
1966										
1967	480	449	532	514	494	495	540	505	523	
1968										
1969	460	448	521	500	526	455	527	482		
1970	455	451	515	501	469	458	501	498		
1971	452	461	508	498		493				
1972	506	467	507	492	443	44				
1973	472	445	533	514	491	446	557	510		
1974	491	481	528	515	451	484	530	514		
1975	461	453	525	506	459	461	516	506		495
1976	481	471	529	510	486	476	552	505		
1977	488	479	538	524	529	482	554	510		
1978	472	470	543	526	495	478	551	505		475
1979	477	460	536	515	479	421		519		
1980	476	457	507	498		476	504	499	565	
1981	459	460	531	499	458	460	521	489		
1982	482	476	504	481	487	450	524			
1983	516	487	529	483	490	490	540	495		
1984	463	428	499	501		458		457		
1985	451	437	514	497	452	438	570	493		
1986	468	447	537	515				511		

APPENDIX 6 cont.

FRED-WRIGHT LAKE SYSTEM SOCKEYE.

YEAR	4-2		5-2		5-3		6-3		OTHERS	
	M	F	M	F	M	F	M	F	M	F
1964										
1965	476									
1966										
1967	445	438	500	486	526	441	480			
1968										
1969	452	445	503	491	446	442	531			
1970	461	445	507	498	443	450	482	509		
1971	437	433	502	473	409	490		494		
1972	482	464	503	480	469	444	495	485		
1973	464	443	525	501	499	440	510	499		
1974										
1975	455	435	503	476	453	443	511			
1976	466	455	526	499	461	449		456		
1977	500	464	530	516	522	483	529	510		
1978	480	462	527	501	494	454	494	502		
1979	461	425	516	507						
1980										
1981	461	441	519		461					
1982										
1983	525	498	512	493						
1984	434	433	494	482						
1985	426	419		465						
1986	501	459	531	515	474	460				